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H. T. HARMON & CO. REQUEST ATTENTION TO THE BEST AND NEWEST RURAL BOOKS

The Principles of Agriculture

A Text-Book for Schools and Rural Societies. Edited by L. H. Bailey, with contributions from his colleagues in the Cornell University. Second edition. 300 pages. 92 illustrations. \$1.25.

This is an attempt to analyze the complex subject of agriculture, and to present the underlying principles and factors in clear, terse English. Each chapter is in two parts, the first part, or the principles, is in numbered paragraphs in very large type (the size used in "Lessons with Plants"); the second part contains informal suggestions to the teacher and pupil, with illustrations. It is one of the best attempts to coordinate all the various agricultural subjects, showing the relative importance and position of each. It is a skeleton of agricultural science and practice. Full references are made to such literature as the teacher or pupil may be able to secure.

The Soil

Its Nature, Relations and Fundamental Principles of Management. By F. H. King, Professor of Agricultural Physics in the University of Wisconsin. 303 pages. 45 illustrations. 75 cts.

A luminous and practical discussion of the soil and its various attributes. As an understanding of the soil in some measure is of vital necessity to success in even the most limited agricultural operations, the importance of a work like this cannot easily be overestimated.

It is a book which progressive farmers will come to regard as one of the essential implements of farm life. —*Boston Daily Advertiser*.

The Fertility of the Land

A Summary Sketch of the Relationship of Farm-Practice to the Maintaining and Increasing of the Fertility of the Soil. By I. P. Roberts, Director of the College of Agriculture, Cornell University. Third edition. 421 pages. 45 illustrations. \$1.25.

This work, written by one who has been termed "the wisest farmer in America," takes up the treatment of the soil from the standpoint of the farmer rather than that of the scientist. It embodies the results of years of careful experimentation and observation along practical lines, and will be found helpful and inspiring to a marked degree. No other one book could be so heartily recommended to progressive farmers to read with interest and interest of talks—for Professor Roberts seems to be personally addressing the reader.

The Spraying of Plants

A Succinct Account of the History, Principles and Practice of the Application of Liquids and Powders to Plants for the Purpose of Destroying Insects and Fungi. By E. G. Lodenan, late Instructor in Horticulture in the Cornell University. 399 pages. 92 illustrations. \$1.

In these days this subject is conceded to be of enormous importance to the horticulturist; for it is through the intelligent spraying that many large fruit interests are saved from utter extinction. Professor Lodenan treats the subject both historically and practically, and the work forms the only complete manual of the subject. The illustrations are clear and clear, and the spraying discussed in its relations to the plant or tree and the crop, but the diseases and insects which are to be combated are most fully presented.

Bush-Fruits

A Horticultural Monograph of Raspberries, Blackberries, Dewberries, Currants, Gooseberries and other Shrub-Like Fruits. By Fred W. Card, Professor of Horticulture in Rhode Island Agricultural College. 537 pages. 113 illustrations. \$1.50.

The aim of this book is twofold—to give all necessary instruction on the cultivation of the bush-fruits, and to provide a cyclopedia of reference to varieties, species, insects and diseases. Every variety of the various fruits is fully described, this being the first effort to collect all information about varieties of all these fruits since the time of the Downings. In this respect the book will always be a standard authority. The varieties are arranged alphabetically under various natural classes or groups, but a very full index refers instantly to any variety. The illustrations are clear and clear, and are entirely separated from the descriptions and technical matter. Full instructions are given for the evaporating of berries. The author has himself had long experience in the growing of the fruits. The book is, therefore, both a manual of practice and a work of reference, and is supplied at the usual price of either one alone.

The Principles of Fruit-Growing

By L. H. Bailey, Professor of Horticulture in the Cornell University. Second edition. 514 pages. 120 illustrations. \$1.25.

There have been manuals and treatises on fruit-growing, but this volume is the first consistent presentation of the underlying principles affecting the growth of the various fruits. It is a book which occupies a field of the greatest importance. It joins science and practice, for it not only discusses the reasons for certain operations, but presents the most approved methods, gathered from the successful fruit-growers of America. It appeals especially to the horticulturist who is willing to have his brain directed and supplement the work of his hands, and to acquire a knowledge of principles rather than a mere memorandum of their application.

Fertilizers

The Source, Character and Composition of Natural, Home-Made and Manufactured Fertilizers; and Suggestions as to Their Use for Different Crops and Conditions. By Edward B. Voorhes, Director of the New Jersey Experiment Station and Professor of Agriculture in Rutgers College. Second edition. 333 pages. \$1.

This book discusses the difficult questions of fertilizers in such plain and untechnical language that those who are wholly untrained in chemistry can use it. There are no elaborate tables. The book instructs upon the fundamental principles of the use of fertilizers, so that the farmer is able, when he reads it, to determine for himself what his practice shall be. It is not an advocate for commercial fertilizers, but tells simply and directly what the truth is respecting their value.

The Farmstead

By I. P. Roberts, Director of the College of Agriculture at Cornell University. 350 pages. 138 illustrations. \$1.25.

This "wisest farmer in America" is also a most delightful and practical writer on the wide subject of farm life and practice. In this book he enters a new field and goes to the root of many problems that have long perplexed farmers and their families. The author's genial style and shrewd, clear, unbiased discussion of such topics as "The Selection and Purchase of Farms," "The Farm as a Source of Income," "Locating the House," "Planning Rural Buildings," "Building the House" (including in three chapters the general plans, outside covering, painting, etc., inside finish, heating and ventilation), "Water-Supply and Sewage," "House-Furnishing," "The Home Yard," "A Discussion of Barns," etc., will make this book a great favorite in its series, and a great help to all who purchase new farms or remodel old ones. To scores of farm-owners it will be a revelation of how much there is to enjoy on the farm and how to make the most of it.

Milk and Its Products

A Treatise Upon the Nature and Qualities of Dairy Milk and the Manufacture of Butter and Cheese. By Henry H. Wing, Assistant Professor of Dairy Husbandry in the Cornell University. 280 pages. 33 illustrations. \$1.

In this volume the whole field of dairying is intelligently considered. The production and character of the lactated fluid are first discussed, and then in order are taken up the marketing of milk, the production and handling of butter, cheese and all the products of the dairy. Although the book is up to date in its science, it is none the less a complete guide to modern dairy practice. The illustrations are of the highest quality and are most commendable of the text. No recent work on dairying has been so well received as this.

Irrigation and Drainage

Principles and Practice of their Cultural Phases. By F. H. King, Professor of Agricultural Physics in the University of Wisconsin. 502 pages. 163 illustrations. \$1.50.

This book deals in a most clear and thorough way with immediately practical problems from the farmer's, fruit-grower's and gardener's standpoint, while the principles which underlie them are presented in a concise manner that will be most helpful in building up a rational practice of irrigation culture and farm drainage. Special effort has been made all through the book to broaden ideas of general soil management, even where neither irrigation nor drainage is practiced. In the preparation of this book the author personally inspected the irrigating ditches and practices of both humid and arid climates in this country and in Europe, so that the illustrations, which are largely photo-engravings, are also of a most practical nature.

The Nursery-Book

A Complete Guide to the Multiplication of Plants. By L. H. Bailey, Professor of Horticulture in the Cornell University. Third edition. 365 pages. 152 illustrations. \$1.

The details of questions of propagation are answered in this admirable volume, which has become the standard work of reference for nurserymen. It is now in its third edition, and has been thoroughly revised and greatly extended. It is intensely practical, and fully sets forth the processes of budding, grafting, seed-sowing, etc., as well as many other important items of nursery work. It is simply essential to the seedsman, nurseryman, florist or grower of plants in any walk of life. As with all Professor Bailey's works, there are unusually complete indexes and glossaries, rendering the book most convenient in use.

Plant-Breeding

Being Five Lectures upon the Amelioration of Domestic Plants. By L. H. Bailey, Professor of Horticulture in the Cornell University. 293 pages. 20 illustrations. \$1.

The Forcing Book

A Manual of the Cultivation of Vegetables in Glass Houses. By L. H. Bailey, Professor of Horticulture in the Cornell University. 266 pages. 88 illustrations. \$1.

The Pruning-Book

A Monograph of the Pruning and Training of Plants as Applied to American Conditions. By L. H. Bailey, Professor of Horticulture in the Cornell University. Second edition. 545 pages. 331 illustrations. \$1.50.

Garden-Making

Suggestions for the Utilizing of Home Grounds. By L. H. Bailey, aided by L. R. Taft, F. A. Waugh and Ernest Walker. Third edition. 417 pages. 256 illustrations. \$1.

Lessons With Plants

Suggestions for Seeing and Interpreting Some of the Common Forms of Vegetation. By L. H. Bailey, Professor of Horticulture in the Cornell University, with delineations from nature by W. D. Holdsworth of the University of Michigan. Second edition. 491 pages. 446 illustrations. \$1.10.

The Survival of the Unlike

A Collection of Evolution Essays Suggested by the Study of Domestic Plants. By L. H. Bailey, Professor of Horticulture in the Cornell University. Third edition. 515 pages. 22 illustrations. \$2.

The Evolution of Our Native Fruits

By L. H. Bailey, Professor of Horticulture in the Cornell University. 472 pages. 125 illustrations. \$2.

The Cyclopedia of American Horticulture

By L. H. Bailey, of Cornell University, assisted by Wilhelm Miller, and many expert cultivators and botanists. 4 vols. Over 2,000 original engravings, \$5 per vol.

Introductory



IN PRESENTING this, our 1901 Catalogue, to our patrons and friends, we wish to thank them for the very liberal support they have accorded us during the past year and trust they will favor us with their patronage in the future. The flattering reports received from customers about the quality of our seeds have been very gratifying.

While we do not set apart any part of our Catalogue especially for **novelties in the seed line**, we wish to call attention to the varieties that are deserving of special mention. They will be found under their respective headings distinguished by **heavier type**.

In regard to the selection of the different strains of seeds, we wish to say that we spare no effort to obtain the finest, and by personal inspection of the growing crops, both in this country and abroad, we are enabled to recommend conscientiously the stocks that we offer.

CHEAP SEEDS

Ours are not cheap seeds, notwithstanding the low prices quoted in this Catalogue. In seasons like this planters cannot afford to take any risks and there is no question but that our seeds, no matter what the price as compared with those offered by our competitors, will be the cheapest in the end to all who wish to harvest successful crops. We do make the claim that seeds of stronger vitality and superior growing qualities than we are offering to our customers are not obtainable.

We beg to state to our customers that we have every facility for testing the germination of our seeds, and that **all are tested before leaving our store**. Any seeds that are not found to be of high germinating quality are at once discarded. We cannot, however, be held responsible for crop failures which unusual conditions render unavoidable and which are very often beyond human control.

SPECIAL OFFERS

We will allow on all orders accompanied by cash, **25 cts. worth of seeds extra on each \$1** sent for seeds in packets or ounces. Thus, any one sending us \$1 may select seeds in packets and ounces to the value of \$1.25; for \$2, \$2.50; for \$3, \$3.75, and so on.

We deliver free to any post office or express office in the United States all **Vegetable and Flower Seeds** selected from this Catalogue, if in packets, ounces or quarter pounds. Purchasers must pay charges on pounds, pints, quarts, pecks or bushels, and on all agricultural tools and fertilizers.

Beyond the information contained in this Catalogue, we shall always be pleased to answer any inquiries on horticultural or agricultural subjects to the best of our ability.

Greenhouse Plants of every description can be furnished at short notice.

Our customers may rest assured that orders, either large or small, will receive equally prompt attention. Storekeepers, market-gardeners, farmers and all large growers requiring larger quantities of seeds than those here offered, are invited to write us for special prices, stating quantities and varieties required.

When ordering, please state whether you wish goods shipped by mail, express or freight. When this is omitted, we use our best judgment. Remittances may be made by sending Post Office Order, Express Money Order, Registered Letter or Draft. For small amounts, postage stamps are acceptable. Catalogues are sent free to all who wish them.

We publish in the fall a new illustrated and descriptive Catalogue of French and Dutch Flower Roots and Bulbs.

We wish to call the attention of farmers to the **celebrated Isaiah Frye Plow**, the sale of which we control. The numerous letters of praise and recommendation that we are constantly receiving attest its superior merits.

Disclaimer. While we exercise the greatest care to have all our seeds pure and reliable, we do not give any warranty, expressed or implied. If the purchaser does not accept the seeds on these conditions, they must be at once returned.

Yours cordially,

H. T. HARMON & CO.

Portland, Maine



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H. T. Harmon & Co.'s

ANNUAL CATALOGUE OF

SEEDS, TOOLS, IMPLEMENTS, ETC.

..Choice Vegetable Seeds..

ASPARAGUS

The seed should be sown thinly in drills 12 inches apart, on a light deep rich soil, in May. Thin seedlings to about 4 inches apart in the rows, leaving only the strongest. When plants are used, set about 18 inches apart. The roots should be carefully spread out, and covered with about 6 inches of soil. The bed should be deeply trenched, and well manured with rich and thoroughly decayed manure; if the soil is too stiff, add sand or sifted ashes. One ounce of seed for 60 feet of drill.

Barr's Mammoth. Light-colored stalk. Pkt. 5 cts., oz. 15 cts., $\frac{1}{2}$ lb. 25 cts., lb. 75 cts.

Palmetto. Bright green color; very desirable. Pkt. 5 cts., oz. 10 cts., $\frac{1}{2}$ lb. 30 cts., lb. \$1.

Conover's Colossal. Early and large. Pkt. 5 cts., oz. 10 cts., $\frac{1}{2}$ lb. 15 cts., lb. 40 cts.

ASPARAGUS ROOTS. 2-year-old roots, \$1.25 per 100.

ARTICHOKE

These require a good deep soil, which should be heavily manured. Sow in April, and when strong enough transplant into rows 3 or 4 feet apart.

Green Globe. The best variety. Pkt. 5 cts., oz. 30 cts.

Jerusalem (Tuberous). Qt. 20 cts., pk. \$1.

BEANS

Plant about the first of May in a warm position, in drills 2 to 3 feet apart, covering the seed about 2 inches. Sow every two weeks for a succession. Hoe frequently in dry weather to keep the weeds down. **Dwarf varieties**—1 quart to 100 feet of drill, $\frac{1}{4}$ to 2 bushels to an acre. **Pole varieties**—about 1 pint to 100 poles, and about $\frac{1}{4}$ bushel per acre or to 2,722 poles.

If ordered sent by mail, please add 15 cts. per quart to cover postage.

Dwarf or Bush Varieties

W EXTRA-EARLY REFUCÉE WAX. Long, round, yellow pods. Suitable for early or late planting; abundant yielder. Qt. 40 cts., pk. \$2.50.

EARLY CARMINE-PODDED DWARF HORTICULTURAL. Remarkable for its earliness and the bright color of its pods. Coming in with the early sorts makes it particularly valuable for market purposes. Qt. 35 cts., pk. \$2.

Long Yellow Six Weeks. The leading market variety. Straight, green, flat pods. Qt. 20 cts., pk. \$1.

Low's Champion. One of the best Beans for either snap or shell. Very productive; large, green, flat pods, perfectly stringless. Qt. 25 cts., pk. \$1.50.

Refugee, or 1,000-to-1. Very productive; tender round pods; extensively used for pickles. Qt. 30 cts., pk. \$1.75.

W White Wax. Flat yellow pods; vines short and erect; white-seeded; very popular. Qt. 25 cts., pk. \$1.50.

BURPEE'S BUSH LIMA. This is the best dwarf Lima in cultivation. Grows about 18 inches high; beans large and delicious; vines immensely productive. Qt. 30 cts., pk. \$2.

Henderson's Bush Lima. Beans smaller than the above, but of exquisite flavor; productive. Qt. 30c., pk. \$1.50.

W Black Wax, or Butter. Very early and prolific; round-podded and stringless; of excellent quality. Qt. 20 cts., pk. \$1.25.

W CURRIE'S RUST-PROOF. Very productive; of superior quality; golden yellow, stringless; pods do not rust; seed black. Qt. 30 cts., pk. \$1.75.

Early Mohawk. Long, flat, straight pods; very hardy and productive; good Snap Bean. Qt. 20 cts., pk. \$1.25.

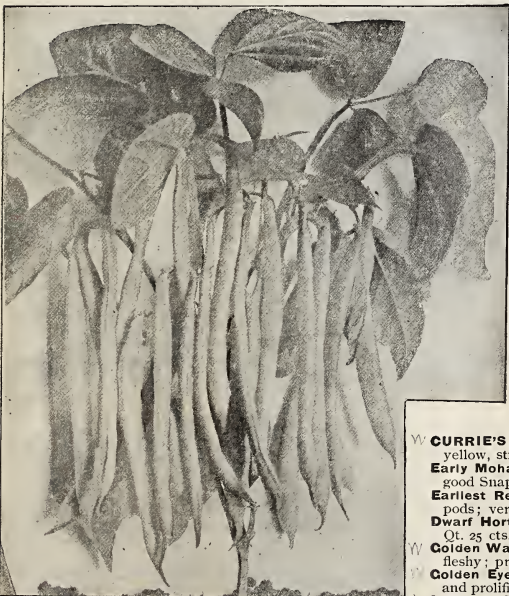
Earliest Red Valentine. One of the earliest Snap Beans. Long, round pods; very productive. Qt. 20 cts., pk. \$1.

Dwarf Horticultural. Best Shell Bean in cultivation. Pods highly colored. Qt. 25 cts., pk. \$1.25.

W Golden Wax. The most popular variety for general use. Pods long, very fleshy; productive. Qt. 20 cts., pk. \$1.50.

W Golden Eye Wax. A most desirable variety for market-garden use. Early and prolific; seldom rusts; pods long and flat. Qt. 20 cts., pk. \$1.50.

W Improved Yellow Eye. Well-known variety; extensively used for baking. Qt. 20 cts., pk. \$1.



Currie's Rust-Proof Bean.

Pole Beans

Black Wax, or Indian Chief. A stringless snap variety, with long yellow pods; black seed. Qt. 25 cts., pk. \$1.75.

Horticultural, or Speckled Cranberry. Excellent either for shell or snap bean, splendid for cooking when dry. Qt. 25 cts., pk. \$1.50.

Horticultural Lima. Very early and productive, with flat, speckled seeds. Qt. 25 cts., pk. \$1.25.

Large White Lima. Very large bean and pod; one of the finest flavored shell beans; late. Qt. 25 cts., pk. \$1.50.

MAMMOTH KING HORTICULTURAL. A new variety, pods of a bright carmine color, very much larger than the common variety. In great demand by market-gardeners. Qt. 30 cts., pk. \$2.

Red Cranberry. Large, tender, stringless pods; very productive. Qt. 20 cts., pk. \$1.25.

Scarlet Runner. A variety of excellent flavor; also very ornamental, flowers a bright scarlet. Qt. 30 cts., pk. \$2.

White Dutch Runner. Same habit as the Scarlet Runner; flowers and seed white. Qt. 30 cts., pk. \$2.

Small White Lima, or Sieva. Bean small but of excellent quality; earlier than the larger variety. Qt. 30 cts., pk. \$2.

White Dutch Case-Knife. A long, flat, green pod, can be used either as a snap or shell. Qt. 25 cts., pk. \$1.50.

BEETS

CULTURE. Beets require deep rich soil, which has been well manured the previous season. Seed may be sown as soon as the ground can be worked in spring. For general crops sow about the middle of May and for winter about the second week in June. Sow in drills about 1 foot apart. Thin out 4 to 6 inches in the rows. One ounce of seed for 50 feet of drill, 5 to 6 pounds to the acre.

DETROIT DARK RED. A splendid early variety, of good shape and color and of excellent flavor; top small, upright growing, so that the rows may be planted closer together; roots globular, very smooth, dark blood-red, tender, crisp and sweet. Pkt. 5 cts., oz. 10 cts., $\frac{1}{2}$ lb. 25 cts., lb. 75 cts.

Dewing's Early Blood Turnip. Medium size, smooth, of good color and flavor; among the best for main-crop. Pkt. 5 cts., oz. 10 cts., $\frac{1}{2}$ lb. 20 cts., lb. 50 cts.

DIRIGO EXTRA-EARLY BLOOD TURNIP. A rich blood-red variety of fine grain and flavor. Very early. Pkt. 5 cts., oz. 10 cts., $\frac{1}{2}$ lb. 25 cts., lb. 75 cts.

Early Flat Bassano. Very early; light-colored. Pkt. 5 cts., oz. 10 cts., $\frac{1}{2}$ lb. 20 cts., lb. 60 cts.

Edmand's Early Blood Turnip. A variety of splendid shape and good size; flesh dark red, excellent quality, a good keeper, small top. Pkt. 5 cts., oz. 10 cts., $\frac{1}{2}$ lb. 20 cts., lb. 50 cts.

Extra-Early Egyptian Blood Turnip. Considered by many the earliest strain of table Beet. Dark red; small top. Pkt. 5 cts., oz. 10 cts., $\frac{1}{2}$ lb. 20 cts., lb. 60 cts.

EXTRA-EARLY ECLIPSE. Very early, round, smooth, dark red. This strain is selected. It has a very small top and is one of the best for market. Pkt. 5 cts., oz. 10 cts., $\frac{1}{2}$ lb. 20 cts., lb. 60 cts.

Swiss Chard, Silver, or Sea-Kale Beet. Grown exclusively for its leaves. The middle rib of the leaf is used and served like asparagus and the rest of the leaf like spinach. Pkt. 5 cts., oz. 10 cts., $\frac{1}{2}$ lb. 25 cts., lb. 75 cts.

Long Smooth Blood. Very dark red, long and smooth; a late variety. Pkt. 5 cts., oz. 10 cts., $\frac{1}{2}$ lb. 20 cts., lb. 50 cts.

Mangel-Wurzel and Sugar Beets

Sow 5 to 7 pounds to an acre.

White French Sugar. Long smooth roots; grows to large size; used extensively for making beet sugar, also for feeding stock. Oz. 5 cts., $\frac{1}{2}$ lb. 15 cts., lb. 40 cts.

Lane's Imperial Sugar. A handsome white-fleshed variety; very productive, harder than the French Sugar Beet and said to contain a larger percentage of sugar. Oz. 5 cts., $\frac{1}{2}$ lb. 15 cts., lb. 40 cts.

Golden Tankard. The best variety for dairy farming. A very large yellow-fleshed sort of cylindrical form, with small top; grows largely above ground, is hardy and a heavy cropper. Fine for either sheep or cattle. Oz. 5 cts., $\frac{1}{2}$ lb. 15 cts., lb. 40 cts.

MAMMOTH LONG RED. This variety is most extensively grown. The roots attain an enormous size, producing from 30 to 50 tons to the acre. Roots uniformly large and well formed. Oz. 5c., $\frac{1}{2}$ lb. 12 cts., lb. 30 cts.

Norblon Giant Long Red. Grows to an enormous size; of the finest quality; an excellent keeper. Oz. 5 cts., $\frac{1}{2}$ lb. 12 cts., lb. 30 cts.

Yellow Globe. A very heavy yielding and good keeper; adapted for shallow soils. Oz. 5 cts., $\frac{1}{2}$ lb. 12 cts., lb. 30 cts.

Warden's Orange Globe. Considered by many to be the best yellow globe variety in cultivation. Orange-yellow, sweet; very productive. Oz. 5 cts., $\frac{1}{2}$ lb. 15 cts., lb. 40 cts.

BROCCOLI

Sow in well-prepared seed-beds or in drills 2 inches apart, as soon as the ground can be worked. When strong enough, transplant into rows 2 feet apart each way. When well grown and properly cooked the flavor is delicate and delicious.

Early White Cape. Compact heads of good size, creamy white; the most sure-heading. Pkt. 5 cts., oz. 30 cts.

Early Purple Cape. Very similar to the above, except in color, which is a brownish purple. Pkt. 5 cts., oz. 30 cts.

BRUSSELS SPROUTS

Sow in the seed-bed in May. Plants should be transplanted into rows about 2 feet apart. The small heads are ready to use after the first frosts in autumn. Not requiring a high cultivation, this vegetable should be more extensively grown, as it is very much superior to cabbage when cooked.

Improved Dwarf. Very compact and of excellent quality. Pkt. 5 cts., oz. 15 cts., $\frac{1}{2}$ lb. 50 cts.

Paris Market. A very fine variety, of half-dwarf growth. Pkt. 5 cts., oz. 25 cts., $\frac{1}{2}$ lb. 75 cts.

Scrymger's Giant. Splendid sort, of fine flavor. Pkt. 5 cts., oz. 25 cts., $\frac{1}{2}$ lb. 75 cts.

CHERVIL

Curled. Young plants are used for flavoring soups and salads. Has a strong perfume and flavor. Sow in May. Pkt. 5 cts., oz. 10 cts., $\frac{1}{2}$ lb. 25 cts., lb. 75 cts.

CRESS

CULTURE. Used extensively as a small salad. Sow in the spring very thickly in shallow drills. Repeat the sowing every two weeks through the season, as it soon runs to seed.

Extra Curled. Good for salad or flavoring. Pkt. 5 cts., oz. 10 cts., $\frac{1}{2}$ lb. 15 cts., lb. 40 cts.

Water Cress. Cultivated by sowing the seed by the side of running water. Pkt. 10 cts., oz. 40 cts.



Detroit Dark Red Beet.

CABBAGE

Cabbages require a deep, rich, well-drained and abundantly manured soil. Sow in January or February in hotbeds for early use. Pick out, when the plants are large enough, into another hotbed, or sow in coldframes in March. Transplant to the open ground when danger of hard frosts has passed, in rows about 2 feet apart, and 18 inches between the plants. The fall and winter varieties may be sown in April or early in May, in drills 3 or 4 inches apart. One ounce of seed for 3,500 plants.

HARMON'S EARLY MAINE (New). The earliest flat Cabbage grown, as early as Jersey Wakefield, with heads very large and solid. The great advantage of this variety lies in its having very few outside leaves, thereby enabling the grower to plant much closer than any other Cabbage. The fact that it is fit to cut as soon as Jersey Wakefield is sufficient recommendation. We have procured our stock from the introducers and can recommend this variety as being superior to all others. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$2, lb. \$6.



Harmon's Early Maine Cabbage.

THE HOLLANDER (Imported Seed). The finest Cabbage for late spring sales and shipping; without doubt the finest winter variety on the market. It commands a higher price than any other sort. The heads are of a medium size, very solid, deep and of a fine white color. They are very superior in quality and keep better than any other sort. This seed is obtained from one of the largest Cabbage growers in Europe, who makes a specialty of this variety. Pkt. 5 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.

All Seasons. An excellent variety for main crop or late use. A sure-heading variety, growing to a large size. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.50.

Danish Ball Head. Heads round and very solid; one of the best for winter. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 65 cts., lb. \$2.50.

Early Jersey Wakefield (Selected). An early and very popular variety. Cone-shaped heads, very solid. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 70 cts., lb. \$2.50.

Early Winnigstad. A medium early sort, with cone-shaped heads, suitable for growing on light soils. A good keeper. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.



Improved American Drumhead Savoy Cabbage.

Fottler's Improved Brunswick. A main crop variety of great excellence. Very large solid heads; stem short and small; a very reliable header. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.25.

Henderson's Early Summer. A second-early variety, with large, compact, round heads of fine quality. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

Henderson's Succession. A remarkably fine Cabbage, with large flat heads; about two weeks later than Early Summer. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 65 cts., lb. \$2.50.

Improved American Drumhead Savoy. A very tender variety; heads very large, with wrinkled leaves. For market-garden or family use. For quality and flavor, the Savoy is much superior to any other Cabbage. Should have a touch of frost before being used. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

Marblehead Mammoth. The largest late Cabbage grown; grows to great weight, but is rather coarse. Good keeper. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

Premium Flat Dutch. A well known late sort, extensively grown for market or private use. An excellent keeper. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.75.

Sure Head. A very popular sort; always forms a good solid head. One of the finest late Cabbages for market-gardeners. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

Red Dutch. Large solid heads of good color; most extensively used for pickling. A good keeper. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$1.75.

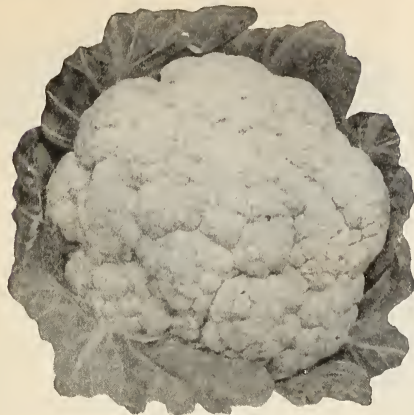
Red Rock. The largest of the red Cabbages; fine grained. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

Stone Mason Drumhead. Extensively used in this section; produces large solid heads of fine quality; is annually becoming more popular for storing in winter. Pkt. 5c., oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.

CABBAGE PLANTS. See page 29.



The Hollander Cabbage.



Snowball Cauliflower.

Early Cauliflower

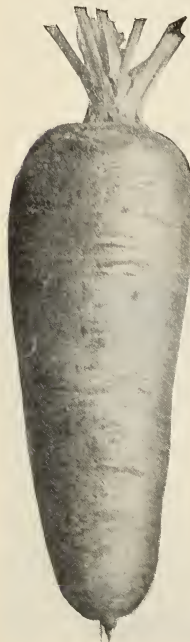
CULTURE. With deep rich soil and an abundance of water, the Cauliflower will succeed. It requires the same culture as cabbage.

For early use sow in May and transplant in rows about 2 feet apart, placing the plants about 2 feet apart in the row. If the season is dry water frequently, if possible using liquid manure. The leaves should be used to protect the head from the sun and help them blanch better. Seed may be sown in the middle of June for late crops, covering the seed about $\frac{1}{2}$ inch deep. One ounce of seed for 3,000 plants.

EARLY SNOWBALL (Danish Grown). This is undoubtedly the finest and earliest dwarf variety grown. Its dwarf, compact habit admits of its being planted 18 or 20 inches apart. Our stock of this variety we can recommend, having purchased the seed from one of the best growers in Europe. Pkt. 20c., oz. \$2.50.

Large Late Algiers. A large, late variety, of excellent quality, grown extensively by market-gardeners. Pkt. 10 cts., oz. \$1.

Selected Extra-Early Dwarf Erfurt. This variety is second only to Early Snowball. The heads are solid, compact and pure white, growing about 15 inches high. Pkt. 15 cts., oz. \$2.



Improved Half-Long Carrot. to an acre.

Carrots

CULTURE. To insure success with Carrots, the soil should be a well-enriched sandy loam, deeply tilled and thoroughly pulverized. Sow in April or May, about an inch deep, in drills 15 inches apart for garden sorts. For field cultivation the rows should be at least 2 feet apart. Thin out young plants from 3 to 6 inches apart according to variety. One ounce of seed for 150 feet of drill. Three to 4 pounds

CHANTENAY. A type of half-long Carrots, somewhat earlier and smaller than Danvers. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. 90 cts.

Danvers Half-Long. This is a standard main crop variety, half-long, with small tap-roots. Pkt. 5c., oz. 10c., $\frac{1}{4}$ lb. 25c., lb. 75c.

Early French Forcing. The earliest forcing variety; small globular roots of reddish orange color and good flavor. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. 90 cts.

Early Scarlet Horn (Stump-Root). A medium-sized, thick-rooted variety; early and grown by market-gardeners for blanching; of good color and flavor. Pkt. 5c., oz. 10c., $\frac{1}{4}$ lb. 30c., lb. 90c.

IMPROVED HALF-LONG, STUMP-ROOTED. This variety is similar to Danvers in shape and suitable for shallow soils. Very smooth, of bright rich color, early and very productive. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

Oxheart, or Guerande. This splendid Carrot is a decided improvement in shape. It is intermediate as to length, between the half-long varieties and the Short Horn Carrot, but much thicker than the latter; it is of very fine quality. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 70 cts.

Improved Long Orange. Very smooth and uniform roots, of large size and rich orange color; a good keeper; suitable for either table use or for feeding stock. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 60 cts.

Large White Belgian. Very large, long-rooted variety for stock-feeding. Pkt. 5c., oz. 10c., $\frac{1}{4}$ lb. 20c. lb. 50c.

Celery

CULTURE. Sow the seeds in March or April, in hotbeds or coldframes. When the plants are 3 inches high transplant into a prepared border, setting them about 4 inches apart. When they have grown to about 6 inches high and are good stocky plants, set in deep, rich, well-manured land, in rows $\frac{3}{4}$ feet apart, with from 6 to 9 inches between the plants. Earth up about 3 times, so that only the tops of the leaves are visible, late in the fall. Care should be taken that the plants are not wet when being hoed or earthed up.

Boston Market. One of the best and most popular sorts in cultivation. Early, crisp, of fine flavor, dwarf and a good keeper. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

Giant Pascal. A strong-growing variety, with thick, broad stalks. A sport from Golden Self-Blanching. As a keeper it is unsurpassed. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.50.

Henderson's Half-Dwarf. A close, compact grower; early; of good quality. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

Henderson's White Plume. Unlike most varieties, this does not require much earthing up. If loosely tied and a little earth is brought up around the base of the leaves to keep them close together, all the inner stalks will blanch out. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

PARIS GOLDEN SELF-BLANCHING. This is without doubt the finest Celery in cultivation. It is perfectly solid, of a fine nutty flavor, attains a good size, and when blanched is of a handsome golden yellow color. The seed that we offer of this variety is saved from the originator's stock. Pkt. 5 cts., oz. 30 cts., $\frac{1}{4}$ lb. \$1, lb. \$4.

Pink Plume. This variety, when blanched, has a white heart and stems delicately shaded with a pale rose tint. It is particularly attractive and tempting when served at table. The stems are solid and of a fine flavor. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 70 cts., lb. \$2.50.

Soup Celery. Seed for flavoring soups, pickles, etc. Oz. 5 cts., $\frac{1}{4}$ lb. 15 cts., lb. 40 cts.



Paris Golden Self-Blanching Celery.

See our special offers on second page of cover. They will interest you.

SWEET CORN

If ordered sent by mail, add 8 cts. per quart.

CULTURE. Plant in hills 3 feet apart in a warm soil. The earlier varieties should not be planted before the middle of May. Nothing is gained by planting too soon. The best varieties having shriveled seed are liable to rot if planted before the soil becomes warm. Hoe frequently, draw soil up around stems, remove all side-shoots. The ground should be thoroughly enriched with well-rotted manure, or with the celebrated Stockbridge fertilizer.



Harmon's Selected Late Sweet Corn.

Our Corn is all choice eastern grown, and must not be compared with western grown stock, which is sometimes offered at very low prices. One quart of seed for 200 hills, 10 quarts to an acre.

Burbank's Early Maine. The earliest variety grown. This Corn is earlier than Cory; ears large, 8-rowed, with white grain and cob. Sweet, juicy and quite dwarf. The best variety for market-gardeners. Qt. 15c., pk. 80c., bus. \$3.

Black Mexican. Medium early; remarkable for its sweetness. Qt. 15c., pk. 75 cts., bus. \$3.50.

Country Gentleman. A main crop variety. Deliciously sweet and tender; quite distinct from any other sort; frequently produces five ears on a stalk. The cob is very small, with deep, pearly white kernel. This undoubtedly is the finest Sweet Corn grown. Qt. 20 cts., pk. \$1, bus. \$3.50.

Dwarf Extra-Early Cory (Red Cob). Very early, dwarf; large reddish kernels. Qt. 15 cts., pk. 80 cts., bus. \$3.

Early Minnesota Dwarf. Of excellent quality, quite early. Qt. 15 cts., pk. 80 cts., bus. \$3.

Early Marblehead. Very similar to Cory; very good for an early variety. Qt. 15 cts., pk. 80 cts., bus. \$3.

Early Crosby. A dwarf, remarkably sweet, early sort, frequently 12-rowed. Qt. 15 cts., pk. 80 cts., bus. \$2.75.

CROSBY (JOSIAH CROSBY'S STRAIN). A very popular variety; grain very thick and sweet; fine market sort. Qt. 20 cts., pk. \$1.25, bus. \$4.

Gold Coin. A sweet and tender medium early variety; ears long, with deep kernels, white when ready for use. Very productive. Qt. 20 cts., pk. \$1.25, bus. \$4.

HARMON'S SELECTED. A late Corn of great excellence. This variety, unlike Stowell's Evergreen, will always ripen in this section. Ears large, sweet and 12-rowed; a strong grower, the stalks being very useful for fodder. This is undoubtedly the best late market variety grown. Qt. 25 cts., pk. \$1.50, bus. \$4.50.

Ne Plus Ultra. Sometimes called "Shoe-Peg," from its deep, narrow grains. Ears medium size, rows very irregular; very sweet and splendid for private use. Qt. 25 cts., pk. \$1.25, bus. \$4.50.

POTTER'S EXCELSIOR. One of the best and sweetest main-crop varieties. Qt. 20 cts., pk. \$1, bus. \$3.50.

Perry's Hybrid. Large 12-rowed variety, almost as early as Minnesota. Grain large and pure white, with a red cob. Qt. 25 cts., pk. \$1.25, bus. \$4.

Stowell's Evergreen. This very well-known standard variety is extensively grown. Of splendid quality, fine for canners and market growers. Qt. 15 cts., pk. 75 cts., bus. \$2.25.

POP CORN

Rice. For seed, 3c. per ear. **Pearl.** For seed, 3 cts. per ear. Shelled for popping 10 cts. per pound.

FIELD AND FODDER CORN

Evergreen Sweet. The best Corn for fodder; grows large, with lots of leaves. Qt. 10 cts., pk. 40 cts., bus. \$1.25.

Early Sanford. Grows very large. Qt. 10 cts., pk. 40c., bus. \$1.25.

Leaming. An early hardy dent variety; large deep grains of dark orange color. Very fine for meal. Qt. 10 cts., pk. 30 cts., bus. \$1.

Longfellow. One of the best early yellow varieties, having long ears, with small cob. Qt. 15 cts., pk. 60 cts., bus. \$2.

Red Cob Ensilage. A white Corn, very tender and juicy; short-jointed, grows to a great height. Qt. 10 cts., pk. 30 cts., bus. \$1.

WINN'S HYBRID. Well known yellow flint variety. Qt. 15 cts., pk. 60 cts., bus. \$2.

BLUNT'S PROLIFIC. Extensively used for ensilage. Pk. 30 cts., bus. \$1.

CORN SALAD, or LAMB'S LETTUCE

This is a hardy, quick-growing plant, the leaves of which furnish a good substitute for lettuce during the winter months. Seed is best sown on the approach of cool, moist weather in the fall, to produce leaves for late fall, winter and spring use.

Large Round-Leaved. The most popular variety. Pkt. 5 cts., oz. 10 cts., ¼ lb. 30 cts., lb. \$1.

CHICORY

Large-Rooted. The dried roots are roasted and used with coffee, or as a substitute. Pkt. 5 cts., oz. 10 cts., ¼ lb. 25 cts., lb. 75 cts.

Cucumbers

CULTURE. Sow for early use about May 1, in heat. Plant in hills which have been previously prepared with some good rotten manure, about a foot apart. Inverted sods are an excellent medium for starting and growing Cucumbers on, as they can be readily transplanted from the hotbed to the hills without disturbing the roots. For main crop, plant in hills about the end of May. Transplant, when possible, in the evening. Powdered hellebore or dry plaster are good preventives against the striped bug, which is liable to trouble the plants. One ounce of seed for 50 hills, 3 pounds to the acre.

Boston Pickling. Fruit short, smooth, pointed at each end, of a bright green color; a heavy yielder. Good for pickling. Pkt. 5 cts., oz. 15 cts., ¼ lb. 20 cts., lb. 60 cts.

Early Frame, or Short Green. A strong-growing and heavy-cropping variety; fruit medium size, early, good for slicing or pickling. Pkt. 5 cts., oz. 10 cts., ¼ lb. 20 cts., lb. 60 cts.

Early Green Cluster. Good color, about 5 inches long, tender and crisp; prolific. Pkt. 5 cts., oz. 10 cts., ¼ lb. 20 cts., lb. 60 cts.

Early Russian. A very early small variety. Splendid for pickles. Pkt. 5 cts., oz. 10 cts., ¼ lb. 25 cts., lb. 65 cts.

IMPROVED WHITE SPINE. One of the best varieties for general purposes; fruit very even in size, dark green, crisp, excellent. Pkt. 5 cts., oz. 10 cts., ¼ lb. 20 cts., lb. 60 cts.

Long Green. A good late variety. Fruit of good length, tender, productive. Pkt. 5 cts., oz. 10 cts., ¼ lb. 20 cts., lb. 60 cts.

West Indian Cherkin. Very small fruit, suitable only for pickles. Pkt. 5 cts., oz. 10 cts., ¼ lb. 40 cts., lb. \$1.25.



Improved White Spine.

DANDELION

Sow the seed in May or June, in drills half an inch deep and a foot apart. Cultivate to keep down the weeds during summer, and upon the approach of severe weather cover with litter, which should be removed the following spring. Excellent as early greener, and considered very healthful. One ounce of seed for 200 feet of drill.

Improved Thick-Leaved, or Cabbaging. Very large and tender; the finest variety for market growers' use. Pkt. 5c., oz. 30c., $\frac{1}{4}$ lb. \$1.50, lb. \$4.

EGG-PLANT

CULTURE. Sow in hotbeds early in spring. When up 2 or 3 inches, transplant into small pots and plunge in earth, so as to get the plants well rooted and stocky. Late in spring, or not until early summer, unless the weather be warm, transplant into thoroughly worked, rich and recently well-manured ground. A good plan is to open a deep, wide trench, nearly fill it with manure, cover with earth and plant therein, placing the



New York Improved Eggplant.

plants 3 feet apart each way. The seed does not always germinate freely; repeated sowings are sometimes necessary. 1 ounce of seed for 300 feet of drill.

Early Long Purple. Earlier and harder than Round Purple and will succeed further north. Pkt. 5 cts., oz. 30 cts.

New York Improved. The leading market variety and undoubtedly the best for size, quality and productiveness. Pkt. 5 cts., oz. 40 cts.

White. For early use; should be used when young. Pkt. 5 cts., oz. 30 cts.

ENDIVE

Green Curled. The hardest variety. Leaves dark green, readily blanching white. Most useful as a salad and much used for garnishing. Pkt. 5 cts., oz. 20 cts.

White Curled. A variety of white tint. Pkt. 5 cts., oz. 20 cts.

KALE, or BORECOLE

Curly, loose-leaved plants of the Cabbage family; very hardy, succeeding in almost any soil. Are improved in flavor after frost. Sow seed in May and transplant in June. One ounce of seed produces about 1,500 plants.

Green Curled Scotch. Leaves dark green, curled and wrinkled; very hardy. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts.

Improved Dwarf Green Curled. Rarely exceeds 18 inches in height, but spreads out under good cultivation to 3 feet in diameter; leaves beautifully curled and bright green. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts.

KOHLRABI

This plant, used both for table and for cattle feeding, is a cabbage in which the cultural development has been directed to the stalk, not to the leaf. The enlarged stalks take the form of turps, but are more hardy and nutritious. Give same cultivation as cabbage. Yield 300 or 400 bushels to the acre for cattle. 1 ounce seed for 300 feet of drill.

White Vienna. Bulbs light green, short leaved, very rapid in growth.

Purple Vienna. The bulb of this variety is purple, and later than the White Vienna. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts.

LETTUCE

CULTURE. The seed should be sown thinly in drills, where the heads are to be grown, or in seedbeds and transplanted to the rows. Thin out when up, so that the young plants may be strong and stocky and have ample room in which to form heads. Keep the soil constantly loose by frequent hoeing. When thinning or transplanting, the plants should stand from 8 to 12 inches apart. One ounce of seed for 150 feet of drill.



Big Boston Lettuce.

BIG BOSTON. A large variety, most desirable either for forcing in coldframes or open ground planting. Always produces large, solid heads. Pkt. 5 cts., oz. 30 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.

Boston Curled. Esteemed for its earliness and good appearance. Highly ornamental in growth; leaves frilled. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

Brown Dutch. Large, thick green leaves, tinged with brown; very large, solid heads. Exceedingly hardy. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

Deacon. A medium-sized variety for summer. Leaves plain and dark green. We recommend this variety as being very superior and one of the best. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

Early Curled Silesia. Early and tender, leaves yellowish green; good for either home or market garden. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

Hanson. Extensively grown for market, as it is always sure to make large, handsome heads of excellent quality; outer leaves green, light veins, inner leaves white. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

Salamander. An excellent variety for summer, forming large heads, which stand the heat and drought better than any other sort.

Tennis Ball (Black-Seeded). Splendid for outdoor cultivation; forms a very compact head; crisp and tender. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

TENNIS BALL, or BOSTON MARKET (White-Seeded). A well-known forcing variety. Heads firm, good size, very white and crisp. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

Troader. A very desirable, hardy variety, for spring or summer. Pkt. 5 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

Victoria Cabbage (Black-seeded). A very useful variety of excellent quality; stands the summer well. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

White Chavigne. A broad-leaved, vigorous-heading sort. White, showy and very desirable. Splendid for open-air cultivation. Pkt. 5 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

White Cos. Habit of growth upright. The leaves require tying up to insure blanching. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

LEEK

CULTURE. The Leek is generally considered superior to the onion for soups; it is very hardy and easily cultivated. Sow in drills a foot apart in April and transplant in July, in rows 15 inches apart, and 6 inches from plant to plant. The plants should be set 5 inches deep in rich, moist soil. One ounce of seed for 1,000 plants.

Large London Flag. Very large thick stem. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts.



Surprise Muskmelon.

Muskmelons

Melons should be planted on light, sandy, rich soil, and after all danger of frost is over and the ground has become warm, in hills about $\frac{1}{2}$ feet in each direction. Cultivate until the vines cover the ground; pinch the ends of the growing shoots to induce early fruiting. If wanted for early use seed can be sown on pieces of sod in hotbeds or in pots. Lime or ashes sifted over the young plants when the dew is on is excellent to prevent the attack of insects.

Green Citron. Early, round, of fine flavor, green-fleshed. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 60 cts.

Green Nutmeg. An excellent variety of large size. Round and deep-ribbed, skin light green and netted. Flesh very thick and of a delicious flavor. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 60 cts.

Large Round Yellow Canteloupe. Round; flesh reddish orange; skin netted, yellow when ripe. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 60 cts.

Large Yellow Musk. Large; flesh reddish orange, of excellent flavor; early and productive. Pkt. 5c., oz. 10c., $\frac{1}{4}$ lb. 20c., lb. 60c.

Montreal Nutmeg. A splendid variety of large size, sometimes weighing 18 to 20 pounds. Round and flattened at both ends; skin light green and netted; flesh remarkably thick and delicious. Good market sort. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 60 cts.

Pineapple. Oval, medium-sized fruit; skin dark green and netted; flesh green, thick, highly flavored. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 60 cts.

Surprise. Resembles Nutmeg in shape. Thin, cream-colored and heavily netted skin; flesh deep salmon-colored, thick and very fine in flavor. It is very prolific, popular and one of the best varieties for home or market use. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20c., lb. 60c.

Watermelons

Black Spanish. Round, slightly ridged and very dark green; firm crimson flesh, very sweet and of excellent flavor. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 60 cts.

Citron for Preserving (Red Seed). Small round variety, used for preserving. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 60 cts.

Mountain Sweet. Large, oblong, dark green; flesh solid and of excellent quality. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 60 cts.

Phinney's Early. Flesh deep red, of fine quality; quite hardy. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 60 cts.

Scaly Bark. A large, oblong fruit; flesh red and very tender; skin covered with mottled green spots, resembling fish scales. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 60 cts.

MARTYNIA

CULTURE. Seed may be sown in the open ground in May, 3 feet apart in each direction, where the plants are to remain; or sow in hotbed and transplant the seedlings afterward.

Proboscidea. Pick when small and pickle like cucumbers. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

MUSHROOM SPAWN

How to Grow Mushrooms

Preparation of Material. This is the most essential point to be studied to ensure success. Procure fresh stable manure, which should consist half of droppings, half of short litter. This must be thoroughly turned over every day for about a fortnight. Manure obtained from unhealthy cattle, or from those that have been fed on green food or carrots, should not be used for this purpose.

For Making Outdoor Beds. The material should be put into a heap, the measurement of which should be, when made up, 2 feet 6 inches at bottom, 2 feet 6 inches high, and 6 inches wide at the top and to any length required, the whole to be firmly put together. After making the bed put stakes down the center by which to gauge the heat, and cover all with long litter. After three or four days pull out the stakes, and when the temperature is at about 80 degrees the bed is ready for spawning. Break the spawn into pieces about the size of a hen's egg and put into the bed about 8 inches apart; cover the whole with fresh loam and heat it well, making the surface quite firm; lightly water, and smooth the surface with the back of a spade; finally cover up with long litter and mats to keep away light and excessive moisture.

Mushrooms may also be grown in any shed or cellar where the temperature does not fall below 45 degrees. The best site for a bed is a hard, dry floor. When made up and well pressed down, in about six weeks Mushrooms should show, and the bed should then have a light watering with tepid water about every ten days, as success depends on maintaining an even temperature.

Imported Spawn. Lb. 15 cts., 8 lbs. \$1.

MUSTARD

CULTURE. Sow seed in spring in drills a foot apart. To have a succession, a sowing should be made every two or three weeks until October. Mustard should be cut when young; when old the flavor is strong.

White London. Excellent for salad; grows rapidly. Oz. 5 cts., $\frac{1}{4}$ lb. 10 cts., lb. 25 cts.

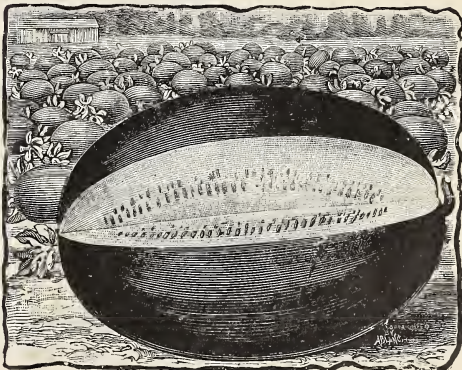
Brown or Black. Considered more pungent than the White. Oz. 5 cts., $\frac{1}{4}$ lb. 10 cts., lb. 25 cts.

OKRA, or GUMBO

The pods when young are used in soups and stews. Sow in spring in rows 3 feet apart and 2 inches deep; thin out so the young plants are about a foot apart. One ounce of seed to 40 feet of drill.

Dwarf Green. Large, tender pods; very productive. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 50 cts.

White Velvet. Large, smooth pods; used to thicken soups. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 50 cts.



Mountain Sweet Watermelon.



Yellow Globe Danvers Onions.

Onions

To insure a good crop of Onions it is necessary that the soil should be rich and kept free from weeds. Use plenty of well-rotted manure and plant the seed as early as possible in the spring. Sow in drills a foot apart and cover about one-third of an inch, treading or rolling after sowing, so that the hot, dry atmosphere may not destroy the sprouting seed. When the plants are about 3 inches high, thin them to 2 inches apart; stir the ground freely and frequently without disturbing the young plants. An ounce of seed to 100 feet of drill.

Our Seed is saved from selected bulbs and are all eastern grown, as Californian grown seed does not prove satisfactory in this climate.

Extra-Early Flat Red. Flat, medium size, deep red; earlier and flatter than Wethersfield. Pkt. 5 cts., oz. 15c., $\frac{1}{4}$ lb. 40c., lb. \$1.25.

New White Queen. Very early, white skin, flat, small and mild-flavored; grown extensively for sets, also for pickling and bunching. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

White Portugal, or Silver Skin. A large, flat, white Onion of mild and pleasant flavor; hard, fine-grained and a good keeper. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

YELLOW GLOBE DANVERS, Selected Stock. This represents the product of years of careful selection and is the most perfect type of Yellow Globe Danvers, which is undoubtedly the best known and most popular of all Onions. Globular in shape, has a small top of fine appearance and is an excellent keeper. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.



Yellow Globe Danvers. An oval, straw-colored, long-keeping variety of good quality. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

LARGE RED WETHERSFIELD. Deep red in color; an immense yielder and splendid keeper. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

ONION SETS

Potato Onion Sets. Qt. 20c. **White Onion Sets.** Qt. 25c.
Red Onion Sets. Qt. 20c. **Yellow Onion Sets.** Qt. 20c.

Top, or Button Sets. These produce on the top of the stalk, instead of seed, a number of small Onions about the size of acorns, which, if planted, will produce a large Onion, maturing earlier than if planted from seed. Qt. 20 cts.

PARSLEY

CULTURE. The best success is obtained by sowing Parsley on rich, mellow land and as the seed germinates very slowly, they should be soaked in warm water about 3 hours before sowing. Sow in drills about 15 inches apart, covering the seed to the depth of half an inch. Parsley may be had during the winter by lifting the plants and placing them in a light cellar.

Double Curled. Dwarf, beautifully curled, excellent for garnishing. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

Fern-Leaved. A highly ornamental variety, extensively used for table decoration; leaves finely cut. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

PARSNIPS

CULTURE. Sow as early in the spring as the weather will permit, in drills 15 inches apart, covering the seed half an inch deep. When the plants have grown large enough, thin out to 6 inches apart in the rows. Parsnips are improved by the frost, and it is a usual custom to take up in the fall a certain quantity for winter use, leaving the rest in the ground until spring, to be dug as required.

Abbott's Improved, or Long Smooth. A standard variety with long, smooth, white roots. Pkt. 5c., oz. 10c., $\frac{1}{4}$ lb. 20c., lb. 50c.

Hollow Crown. Considered the best for general use; roots medium in length, with small tap-root; has a very clear, smooth skin. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 50 cts.



Bullnose Pepper.

PEPPER

CULTURE. Sow in March or April in heat, or in the open ground when the weather has become warm enough; transplant when about 3 inches high. The rows should be 3 feet apart, with 18 inches between the plants. One ounce of seed for about 2,000 plants.

Large Bell, or Bullnose. Fruit large and mild; a favorite for pickling; thick-skinned; the best of the large Peppers. Pkt. 5c., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

Large Squash. Tomato-shaped, of medium size; the best for pickles. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts.

Large Red Cayenne. Long, slender and very pungent. Splendid color. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

Red Chili. Small, slender, bright red fruit; the best for pepper sauce. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

Sweet Mountain. Similar to Bell, but larger. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

PEPPER PLANTS. See page 29.

PEAS

CULTURE. The Pea thrives best in light, loamy soil. The early and dwarf sorts require rich ground. The first planting should be made as early in the spring as the soil can be worked in fine, loose condition. The small, smooth varieties are the best for early planting, as the frost does not injure them. When the weather becomes warmer, seed of the wrinkled varieties may be sown. Sow in drills and cover to a depth of 4 inches. For dwarf varieties rows should be 2 feet apart; tall varieties should have 4 feet between the rows. One quart of seed to 100 feet of drill; 2 bushels to the acre.

If wanted by mail, add 15 cts. per quart.

Alaska. One of the very earliest blue Peas; very productive. Popular with canners and market-gardeners. Height 2½ feet. Qt. 25 cts., pk. \$1.25.

American Wonder. This variety is among the first to mature; the pods are of good form and size. Height 1 foot. Qt. 25 cts., pk. \$1.30.

Carter's First Crop. One of the most popular, early, round-seeded varieties. Height 3 feet. Qt. 20 cts., pk. \$1.

Cleveland's Eclipse. As early as American Wonder, very productive and of excellent flavor. Height 2½ feet. Qt. 25 cts., pk. \$1.50.

Extra-Early Premium Gem. A wrinkled Pea, with straight, well-filled pods. An improvement on Little Gem. Height about 15 inches. Qt. 25 cts., pk. \$1.25.

First and Best. A well-known, smooth-seeded sort; very early and prolific. Qt. 20 cts., pk. \$1.10.

GRADUS, or PROSPERITY (New). A new, large-podded, first-early, wrinkled variety. This represents the greatest advance yet achieved in early Peas, for although the variety ripens with the earliest, the deep green pods are as large and as well filled as those of Duke of Albany; of excellent quality. Height 3 feet. Qt. 35c.

Improved Daniel O'Rourke. Extra-early sort; smooth-seeded; produces an abundance of well-filled pods. Height 2½ feet. Qt. 20 cts., pk. \$1.10.

Laxton's Alpha. One of the earliest wrinkled Peas in cultivation. Of fine quality and very prolific; pods well filled. Height 3 feet. Qt. 20 cts., pk. \$1.

McLean's Little Gem. An early dwarf wrinkled Pea of superior flavor and very prolific. Height 1½ feet. Qt. 25 cts., pk. \$1.25.

NOTT'S EXCELSIOR. The sweetest and most prolific of all the early dwarf Peas; outyields Premium Gem or American Wonder. The vines are vigorous and very prolific; pods well filled with large peas of very fine flavor. Height 1 foot. Although comparatively new, it is already widely planted. Qt. 25 cts., pk. \$1.50.

Philadelphia Extra-Early. For quality and productiveness this variety is excelled by few of the early smooth Peas. Height 3 feet. Qt. 20 cts., pk. \$1.

Rural New Yorker. Very early, prolific and uniform in ripening; smooth sort. Height 2½ feet. Qt. 20 cts., pk. \$1.10.

Second-Early Varieties

CARTER'S DAISY

(New). This variety is one of the finest of the dwarf early wrinkled Peas. It is crossed between Culverwell's Giant Marrow and Stratagem, the result being a distinct-looking Pea. The vine in an average season grows 12 to 18 inches long, and is covered with pods 5 inches in length, containing eight to 10 deep-colored peas of delightful flavor. Qt. 30 cts., pk. \$2.

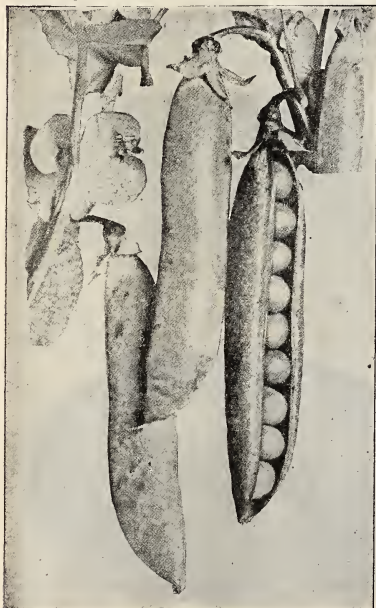
Bliss' Everbearing. This variety matures soon after Advancer, and continues a long time in bearing. Vines stout, about 2½ feet high, producing at the top six to ten broad pods. If the pods are removed as they mature, the plant will throw out branches bearing pods that mature in succession, thus prolonging the season. Peas large, wrinkled, of fine flavor. Qt. 20 cts., pk. \$1.

Bliss' Abundance. Remarkably productive and of excellent quality; the plant is of a branching habit. Height 3 feet. Qt. 25 cts., pk. \$1.35.

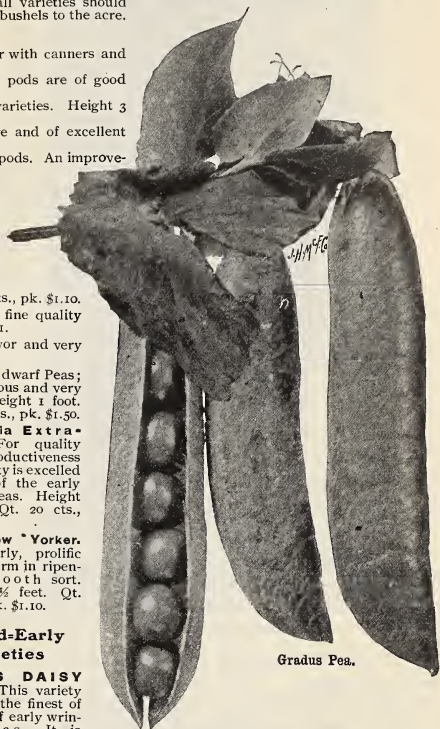
Dwarf Champion. This is a valuable second-early wrinkled Pea. It is a robust grower, producing long, handsome, well-filled pods; good flavor. Height 2 feet. Qt. 25 cts., pk. \$1.35.

HEROINE. Produces large, recurved, showy pods containing seven or eight peas, resembling Pride of the Market, but a deeper green both in vine and pod; enormously productive. Height 2½ feet. Qt. 20 cts., pk. \$1.

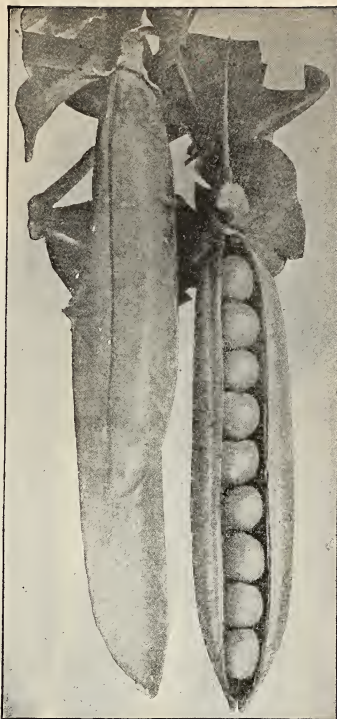
Horsford's Market-Garden. A fine wrinkled variety, coming in about the same time as Advancer; it is a prolific bearer and has yielded more per acre than any other American variety. The pods are of medium size, but very abundant and well filled with peas of a delicious, sweet flavor; should be planted thinly to obtain the best results. Height 2½ feet. Qt. 20c., pk. \$1.



Carter's Daisy Pea.



Gradus Pea.



Improved Stratagem Pea.

SECOND-EARLY PEAS, continued

McLean's Advancer. A well-known standard sort. Very productive; pods of fine appearance; very uniform in ripening; popular with market-growers. Qt. 20 cts., pk. \$1.

Pride of the Market. The enormous productiveness and splendid appearance of this variety make it very popular among the market-gardeners. Qt. 25 cts., pk. \$1.50.

SHARPE'S QUEEN (New). In habit, cropping qualities, color and flavor, it is the perfection of a Pea for every purpose, and by successive sowings a continuous crop can be obtained. Sharpe's Queen is a blue wrinkled variety of a sturdy, branching habit. It requires to be sown thinly, as the pods are produced from the very bottom of the plant to the top. The pods are large, green, slightly curved, and so filled with peas that when opened it would appear impossible that they could be held in one pod. The peas are large, oval, deep green, and of a delicious flavor. Height 2½ feet. Qt. 25 cts., pk. \$1.50.

STRATAGEM IMPROVED. An extra select strain and a great improvement on the old Stratagem; a dwarf wrinkled variety of sturdy, compact growth; a heavy cropper, producing large, handsome dark green, remarkably well-filled pods; of excellent quality and delicious flavor. Height 2 feet. Qt. 25 cts., pk. \$1.25.

THE ADMIRAL (New). A superb Pea of robust constitution, which enables it to bear an enormous crop of large, deep green peas of splendid quality. Height 3 feet. Qt. 30 cts., pk. \$1.50.

Yorkshire Hero. A splendid large marrow pea of vigorous growth, bearing an abundance of large, well-filled pods, containing eight or nine peas of delicious flavor. Height 2½ feet. Qt. 20c., pk. \$1.

MAIN AND LATE CROP VARIETIES

American Champion. Late, large, wrinkled variety; though not quite so late or tall as Champion of England, it is equally as productive. Height 4 feet. Qt. 25 cts., pk. \$1.50.

Champion of England. This old favorite is considered by many to be equal to any of the late varieties in quality and productiveness. Height 5 feet. Qt. 20 cts., pk. 90 cts.

DUKE OF ALBANY. This splendid variety is one of the most prolific in cultivation, and specially recommended as a reliable sort for late cropping. The plant is of strong and vigorous growth; the pods are large, dark green and well filled; peas delicious. Height 4 feet. Qt. 20 cts., pk. \$1.25.

Dwarf Telephone. (Selected Stock.) Resembles the old variety, but is dwarfier. Height 2 feet. Qt. 30 cts., pk. \$1.50.

Juno. Vines very robust; immensely productive. The pods are large and broad-backed, being filled to the ends with delicious dark green peas of immense size. Height 2½ feet. Qt. 20 cts., pk. \$1.25.

Prince of Wales. An excellent white wrinkled main-crop variety. It is wonderfully prolific, bearing a heavy crop of large, dark green pods, which are closely packed with large peas. Height 3 feet. Qt. 25 cts., pk. \$1.50.

TELEPHONE. (Selected Stock.) This splendid variety is one of the most prolific in cultivation, and specially recommended as a reliable sort for late cropping. The plant is of strong, vigorous growth and branching habit. Pods are long and well filled; the peas are of good flavor. Height 4 feet. Qt. 20 cts., pk. \$1.25.

Black-Eyed Marrowfat. Very popular and hardy; a great yielder. Height 4 feet. Qt. 15 cts., pk. 60 cts.

White Marrowfat. A favorite sort. Large, smooth white seed. Height 4 feet. Qt. 15 cts., pk. 60 cts.

FIELD VARIETIES

Canadian White Field. Bus. \$1.50.

Wisconsin Blue. Bus. \$1.50.

POTATOES

All Extra Selected Hand-Picked Aroostook-Grown Seed Stock

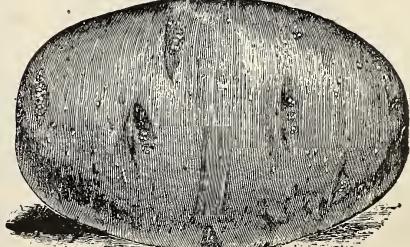
Early Rose. An oblong, round, reddish potato, which shows red inside when cut. It is an old and well-known variety; very early, of fine quality and a fair yielder. It is too well-known to need further description. Pk. 50 cts., bus. \$1.75, bbl. \$4.50.

Early Harvest. A seedling of Aroostook county. A very early Potato. A vigorous grower, yielding large crops of smooth, white tubers of excellent quality. While not so early as some other varieties, its large yield and excellent quality make it a very desirable Potato. Pk. 40 cts., bus. \$1.50, bbl. \$4.

Early Oxford. A variety of excellent quality, as early as Early Rose, which it resembles in shape, but somewhat lighter in color; grows very uniform in size. Pk. 50 cts., bus. \$1.75, bbl. \$4.50.

Early Norther. A splendid early variety, considered superior to Early Rose. A large yielder and good keeper. Pk. 40 cts., bus. \$1.50, bbl. \$3.75.

X X Early. An exceedingly early variety. Of good quality and a splendid yielder. In color it resembles Early Rose, and is equally as good for table use. Pk. 40 cts., bus. \$1.50, bbl. \$3.75.



Early Rose Potato.

New Queen. One of the earliest, and the best of the early Potatoes grown. In color and shape it very closely resembles the Hebron, from which it is derived. It is not so heavy a yielder as White Elephant, but equals Beauty of Hebron and is earlier. On account of its resemblance to the others, it is very hard to get the seed true to name, and many unscrupulous dealers substitute the others for it. The true Queens are very desirable. Pkt. 40 cts., bus. \$1.50, bbl. \$3.75.

Carman No. 1. A very large, handsome white Potato. Season medium. Skin strongly netted and a little inclined to irregularity of surface. Pkt. 40 cts., bus. \$1.50, bbl. \$3.75.

Carman No. 3. A smooth, rounded, somewhat flattened, white Potato, very mealy and nice when cooked. Yields uniformly good crops, and is an especially desirable Potato for the main crop. It is rather later than Hebron in its time of ripening. Pkt. 40 cts., bus. \$1.50, bbl. \$3.75.

Green Mountain. Very smooth, symmetrical, almost round and somewhat flattened. Its excellent quality and large productive-ness make it one of the most popular Potatoes grown. It is now the leading Potato in the large markets, and always brings a better price than any other variety. It is medium in time of ripening, and always gives a big crop. Pkt. 40 cts., bus. \$1.50, bbl. \$4.

Beauty of Hebron. A medium early Potato, with pinkish white skin, very dry and mealy; in all respects the standard Potato. In time of ripening it is between New Queen and White Elephant, both of which resemble it and have been mixed with it so that it is very difficult to get pure stock. Pkt. 40 cts., bus. \$1.50, bbl. \$3.75.

Delaware. A smooth, white Potato, growing usually large and uniform tubers of excellent quality. It is a very heavy yielder, and sells for the highest market price. No Potato on the market has so many good qualities to recommend it. Pkt. 40 cts., bus. \$1.50, bbl. \$4.

PUMPKINS

Large Cheese. Flat, like a cheese, hardy and productive; one of the best for family use. Two quarts of seed to an acre; hills 8 by 8 feet. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 60 cts.

Sugar, or Sweet. Fine-grained, sweet, excellent for pies; prolific. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 60 cts.

Connecticut Field. Very productive; excellent for stock. Oz. 5 cts., lb. 20 cts.



Extra-Early Scarlet Forcing Radish.

RADISH

Radishes succeed best in a light sandy soil. Sow at intervals of two weeks for a succession through the summer. One ounce of seed for 100 feet of drill.

EXTRA-EARLY SCARLET FORCING. A small-leaved variety, specially adapted for forcing under glass; skin bright scarlet; matures in about twenty days. Pkt. 5c., oz. 10c., $\frac{1}{4}$ lb. 30c., lb. 75c.

Early Scarlet Turnip. Early; of good shape and color. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 50 cts.

FRENCH BREAKFAST. Pink, olive-shaped, white-tipped. One of the most popular varieties. Pkt. 5c., oz. 10c., $\frac{1}{4}$ lb. 20c., lb. 60c.

LONG BRIGHTEST SCARLET. Vivid scarlet, tipped with snow-white; very juicy, sweet, crisp and a rapid grower; suitable for forcing. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. 75 cts.

Long Scarlet. A favorite variety, of excellent quality, good for either market or home use. Pkt. 5c., oz. 10c., $\frac{1}{4}$ lb. 20c., lb. 50c.

Non Plus Ultra. Very suitable as a forcing variety; roots round, bright scarlet, of a mild, delicate flavor. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 60 cts.

Round Black Spanish. Globe-shaped; skin black, flesh white; splendid keeper during winter. Pkt. 5c., oz. 10c., $\frac{1}{4}$ lb. 20c., lb. 50c.

RHUBARB

CULTURE. Give a deep, rich soil, trenched to the depth of 2 feet. It is usually propagated from roots. If grown from seed, sow early in spring, in drills a foot apart, thinning out to a foot apart in the rows. Transplant in the fall or following spring about 3 feet apart each way. One ounce of seed for 75 feet of drill.

Myatt's Linnaeus Giant. An early and very fine variety; leaves and stalk immense. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.

Myatt's Victoria. Later than the above, but equally large and desirable. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.

RHUBARB ROOTS. See page 29.

SPINACH

CULTURE. For summer use, sow early in spring, in drills 15 inches apart, and make successive sowings every fourteen days. For spring use, sow in September and cover with light litter in November. One ounce of seed to 75 feet of drill, 10 pounds to an acre.

BLOOMSDALE, or SAVOY-LEAVED.

A heavy cropper. Large, tender, curled leaves; of fine quality and very hardy. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 15 cts., lb. 35 cts.

Round Thick-Leaved.

A standard sort, good for either spring or fall sowing. Leaves are thick and tender. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 15 cts., lb. 35 cts.

Long-Standing. Of excellent quality. Stands the longest before running to seed. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 15 cts., lb. 35 cts.

Prickly, or Winter. Very vigorous and hardy; leaves are arrow-shaped. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 15 cts., lb. 35 cts.



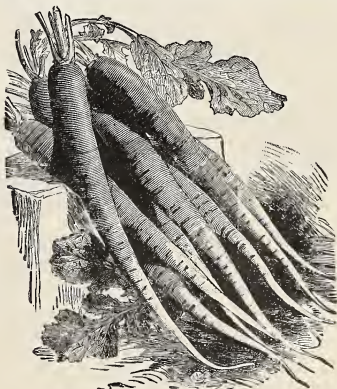
Bloomsdale Spinach.

SALSIFY, or OYSTER PLANT

This plant produces an edible root in about ninety days. They are long, slim, white-fleshed and have a smooth, white skin. Sow in April, in drills 18 inches apart, in deeply dug and well-manured land. Thin the plants to about 9 inches apart. One ounce of seed for 75 feet of drill.

Long White French. This is a standard variety. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30c., lb. \$1.

Mammoth Sandwich Island. The largest variety in cultivation. Of good flavor. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.50.



Long Brightest Scarlet Radish.

TOMATOES

CULTURE. Sow in March, in hothed or greenhouse, in a temperature of not less than 60 degrees. When the plants are large enough, transplant into boxes about 4 inches apart, or separately in pots. If transplanted a second time, the plants will be greatly benefited. Transfer to the open ground in June, planting deeply about 4 feet apart. A shovelful of well-rotted manure should be mixed with the earth of each hill. By using trellis for the plants the fruit will be much finer and larger. One ounce of seed for 2,000 plants.

Acme. Of fine shape and smooth outline; purplish crimson. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

Canada Victor. One of the earliest varieties. Of medium size and very symmetrical. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

DWARF CHAMPION. Dwarf sturdy plants, quite distinct and early. Fruit of fine color, with few seeds. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

Essex Early Hybrid. Very early, large, solid; rich-flavored, perfectly smooth, purplish crimson; very productive. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

FORDHOOK FIRST. A perfectly solid, smooth Tomato of first-class appearance. The finest early variety we know. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

LIVINGSTON'S BEAUTY. Large, showy fruit; deep red, with slight tinge of purple, growing on vines in clusters. Solid, meaty, smooth and free from rot or green core. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

Livingston's Favorite. Large, smooth, productive; a good shipper. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

Livingston's Perfection. Very regular, early and productive; good for shipping. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

New Stone. A very superior sort, producing extraordinarily thick, solid red fruit borne in bunches. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

Paragon. Bright crimson, smooth, solid; fruit large, a second-early variety. Excellent shipper. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

Pear-Shaped Yellow. Yellow, shaped like a pear. Splendid for preserves. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.



Livingston's Beauty Tomato.



Hubbard Squash.

SQUASHES

Plant in May, or as soon as danger of frost is past. The ground should be well prepared; light soils are best suited to their growth. Put six or eight seeds in a hill, and thin out to three or four seedlings. Plant bush varieties in hills 5 or 6 feet apart; running sorts 10 feet apart. One ounce of seed to about 50 hills.

NEW GOLDEN BRONZE. A cross, some four years ago, of Bay State and Boston Marrow. In form the same as the latter, with stem and blossom end precisely like that variety, having also the same peculiar wrinkled appearance of skin. Size large, averaging from eight to ten pounds; color a dark grayish green, with bronze on upper surface when ripe; flesh an exceedingly bright golden yellow, fine-grained, very sweet and delicious. Early in maturing, a good keeper and yielder. The squashes are of very uniform size and appearance. For combining the qualities desired for the table this has no superior. Specimens grown in 1897 were kept until June, 1898. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.60.

American Turban. Flesh orange-yellow, fine-grained, thick. A splendid fall sort. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 60 cts.

Bush Summer Crookneck. This is the best-flavored of the early bush Squashes. Long, bright yellow. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 60 cts.

BOSTON MARROW. A valuable variety, coming in about ten days later than the bush sort; a good keeper and of fine flavor. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 60 cts.

Early Prolific Marrow. The earliest and most prolific fall and winter Squash. Flesh dry, sweet, bright orange. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 60 cts.

Essex Hybrid, or Hard-Shell Turban. An early and rapid-growing variety, with thick, high colored, solid flesh of the richest flavor; it is also one of the best keepers. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 60 cts.

HUBBARD. The favorite winter Squash; more extensively grown than any other sort. Very hard, dark green shell; flesh very thick, of fine flavor; unsurpassed for keeping. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 60 cts.

Mammoth Chili. Grows to an enormous size, often weighing nearly 200 pounds. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.

Marblehead. An excellent variety, resembling Hubbard, but has gray skin; a fine yielder and good keeper. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 60 cts.

Winter Crookneck. A good fall variety; flesh close-grained and sweet. Plant 9 feet apart. Pkt. 5 cts., oz. 10c., $\frac{1}{4}$ lb. 20c., lb. 60c.

The Faxon. A medium-sized variety, very early and productive. Flesh orange-color, of excellent quality; matures early enough for summer use. It is a splendid winter sort and a good keeper. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

Yellow-Bush Scalloped. An early variety, excellent for shipping. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 60 cts.

TOBACCO

CULTURE. Sow the seed when all danger of frost is past, in rich, deep soil, in rows 4 feet apart, and thoroughly cultivate.

Connecticut Seed Leaf. Pkt. 5 cts., oz. 30 cts.

PONDEROSA. The largest variety in cultivation; very solid and of good flavor. Pkt. 5 cts., oz. 25 cts., $\frac{1}{2}$ lb. 75 cts., lb. \$2.50.

Red Cherry. Fruit small, about $\frac{1}{2}$ of an inch in diameter, borne in clusters, very smooth and round. Very desirable for pickles or preserves. Ornamental. Pkt. 5 cts., oz. 30 cts., $\frac{1}{2}$ lb. 75c., lb. \$3.

Royal Red. Very strong and vigorous grower; fruit large, bright deep red, of good quality. Pkt. 5 cts., oz. 25c., $\frac{1}{2}$ lb. 75c., lb. \$2.50.

RED CROSS. Medium early, productive, of fair size, bright red. Pkt. 5 cts., oz. 25 cts., $\frac{1}{2}$ lb. 75 cts., lb. \$2.50.

Table Queen. Early, large, smooth, very solid and contains comparatively few seeds. An excellent variety of good color. Pkt. 5 cts., oz. 30 cts., $\frac{1}{2}$ lb. 80 cts., lb. \$3.

Trophy. One of the most popular varieties. Large, bright red; a splendid late variety. Pkt. 5 cts., oz. 20 cts., $\frac{1}{2}$ lb. 60 cts., lb. \$2.

Yellow Cherry. Same as Red Cherry, except in color. Pkt. 5 cts., oz. 30 cts., $\frac{1}{2}$ lb. 75 cts., lb. \$2.50.

TOMATO PLANTS. See page 29.

Turnips

CULTURE. Sow in spring, as soon as the ground can be worked, for early Turnips. July, until the end of September, is the best time for successful Turnip sowing. Rutabagas should be sown in June or early in July, in drills 18 inches apart. Thin Turnips when large enough, 6 to 9 inches apart. The seed should be sown before rain, in good, rich well-worked soil. One ounce of seed for 150 feet of drill; two pounds to the acre, in drills.

EARLY WHITE STONE, or SIX WEEKS. An excellent early sort for general use; good keeper. Pkt. 5 cts., oz. 10 cts., $\frac{1}{2}$ lb. 15 cts., lb. 50c.



EXTRA-EARLY PURPLE-TOP MILAN. A remarkable early, distinct strap-leaved variety, coming into use before any other sort, being a week or ten days earlier than the ordinary early variety, and remaining a long time fit for use. The bulbs are white, with a purple top, round-flattened and solid. Pkt. 5c., oz. 10c., $\frac{1}{2}$ lb. 25c., lb. 75c.

Early Purple-Top Strap-Leaf. This is the most popular of the turnips. It is a quick grower; flesh tender, white, sweet. Pkt. 5c., oz. 10c., $\frac{1}{2}$ lb. 15c., lb. 40c.

Golden Ball. An excellent yellow variety; remains a long time fit for use. Pkt. 5c., oz. 10c., $\frac{1}{2}$ lb. 20c., lb. 50c.

Extra-Early Purple-Top Milan Turnip.

or late sowing. Oval in shape. Flesh firm, sweet and mild. Pkt. 5 cts., oz. 10 cts., $\frac{1}{2}$ lb. 15 cts., lb. 40 cts.

Yellow Aberdeen. Of round form, yellow flesh, of fine texture, nutritious and a good keeper. Excellent for feeding cattle. Pkt. 5 cts., oz. 10 cts., $\frac{1}{2}$ lb. 15 cts., lb. 50 cts.

Yellow Stone. A very popular yellow-fleshed variety, good for table use. Flesh very firm, tender, sweet and fine-flavored. Pkt. 5 cts., oz. 10 cts., $\frac{1}{2}$ lb. 15 cts., lb. 50 cts.

White-Top Strap-Leaf. Similar to the Purple-Top, except in color. Pkt. 5 cts., oz. 10 cts., $\frac{1}{2}$ lb. 15 cts., lb. 40 cts.

RUTABAGA, or SWEDISH TURNIP

Carter's Imperial Hardy Swede. One of the best of the yellow-fleshed Swedes. Bulbs large, with purple crown; good for table or stock. Pkt. 5 cts., oz. 10 cts., $\frac{1}{2}$ lb. 15 cts., lb. 40 cts.

Sweet German. White-fleshed, sweet and fine-flavored; good keeper. Pkt. 5 cts., oz. 10 cts., $\frac{1}{2}$ lb. 15 cts., lb. 50 cts.

SKIRVING'S PURPLE-TOP. A well-known yellow-fleshed variety, of large size and fine quality. For stock or family use. Pkt. 5 cts., oz. 10 cts., $\frac{1}{2}$ lb. 15 cts., lb. 40 cts.

NEW IMPROVED WHITE ROCK. In shape this Turnip is all that can be desired. In quality we can say that it is the very best. Our grower says he had a dish of it on the table May 1, and that the flavor was, in every way, as good as when the roots were gathered in fall. An important item is its being fully three weeks earlier than the other Rock Turnips, and so can be planted later and insure a crop. We offer this new strain with all confidence, and feel sure it will meet all requirements of the most critical grower. Oz. 10 cts., $\frac{1}{2}$ lb. 30 cts., lb. \$1.

Herbs

Anise. Used in the manufacture of liquors and confectionery. The plant itself is used as a garnish and in the manufacture of cordials. It is one of the oldest medicinal spices. Sow in the spring about 10 inches apart, in drills. Annual. Pkt. 5 cts., oz. 15 cts.

Balm. A perennial herb often used in the manufacture of a drink for sick persons, and sometimes employed for culinary purposes. Pkt. 5 cts., oz. 40 cts.

Caraway. The seeds are used in flavoring bread, pastry, sauce and sometimes in cheese-making. Sow seed in the spring, in drills about 3 feet apart and thin to 6 inches. Biennial. Pkt. 5c., oz. 10c.

Coriander. The seeds are used in the manufacture of liquor and in culinary operations. The seed should be sown in drills in the spring 18 inches apart; thin to 6 inches. Annual. Pkt. 5c., oz. 15c.

Dill. Used in the flavoring of preserves and pickles, also as a condiment. In flavor it resembles mint. Sow the seed in drills 18 inches apart. Biennial. Pkt. 5 cts., oz. 10 cts.

Fennel. The roots and lower ends of the leaf-stalks are used for boiling. In flavor it resembles celery, and is used in the manufacture of liquor. Sow the seed in spring, in drills 18 inches apart, and thin to 6 inches. Perennial. Pkt. 5 cts., oz. 15 cts.

Hoarhound. Used extensively as a tonic, and in cough mixtures. Sow the seed in spring, in drills 18 inches apart. Perennial. Pkt. 5 cts., oz. 25 cts.

Hyssop. Considerably grown as a medicinal herb. Much esteemed for domestic purposes. Sow in spring, in drills 18 inches apart. Perennial. Pkt. 5 cts., oz. 35 cts.

Lavender. The leaves of this plant are used for seasoning and the flowers for perfumery. The seed should be sown in the early spring. Perennial. Pkt. 5 cts., oz. 20 cts.

Marjoram, Sweet. Extensively used for seasoning. Sow the seed in the early spring; when 3 inches high thin to 6 inches between the plants. Perennial. Pkt. 5 cts., oz. 15 cts.

Rue. A plant of rather disagreeable odor, bitter and pungent, nevertheless used in cooking. Seed should be sown in April in rows 2 feet apart and thinned to 6 inches. Perennial. Pkt. 5 cts., oz. 20 cts.

Saffron. Used in medicine and in dyeing. Annual. Pkt. 5 cts., oz. 15 cts.

Sage. One of the most popular garden herbs, used for seasoning and distillation. Sow in spring, in drills a foot apart; thin to 6 inches between the plants. Annual. Pkt. 5 cts., oz. 15 cts.

Summer Savory. Very much cultivated for seasoning meat and vegetables. Sow in drills a foot apart and thin to 5 inches. Stems straight; foliage light blue and exceedingly small. Annual. Pkt. 5 cts., oz. 15 cts.

Thyme. Used extensively for seasoning and in distillation. The flavor is strongly aromatic. Sow in rows 15 inches apart. Perennial. Pkt. 5 cts., oz. 30 cts.

Wormwood. Possesses a peculiar aromatic bitter taste; used for medicinal purposes. Perennial. Pkt. 5 cts., oz. 30 cts.



Sweet Marjoram. Summer Savory. Thyme.

BIRD SEEDS, ETC.

Canary Seed. Lb. 10 cts.

Hemp Seed. Lb. 10 cts.

Lettuce Seed. Oz. 10c., lb. 50c.

Maw Seed. Lb. 15 cts.

Millet Seed. Lb. 10 cts.

Rape Seed (German). Lb. 10c.

Rice, Wild. For water fowls.

Lb. 30 cts.

Rice, Unhulled. Lb. 10 cts.

Sunflower Seed. Large Russian. Lb. 10 cts.

Mixed Seed in 1-lb. packages, 10 cts.

Bird Gravel. Pt. 5 cts.

McAllister's Mocking-Bird

Food. Bottle 35 cts.

Song Restorer. 10 cts.

Cuttle Fish Bone. Lb. 40 cts.

FOR POULTRY SUPPLIES, see descriptive price-list, page 43.

Descriptive List of Flower Seeds

ABRONIA umbellata. Beautiful annual trailing plant, bearing clusters of sweet-scented, rose-colored flowers. Height 8 inches. Pkt. 5 cts.

ACHILLEA, The Pearl. A hardy herbaceous plant. Flowers white; very free; excellent for cutting. Height 1 foot. Pkt. 10 cts.

ACROCLINIUM. One of the most desirable of the annual Everlastings. Useful for winter bouquets. The flowers should be cut before becoming fully expanded. Mixed colors, pkt. 5 cts.

ADONIS. Very pretty and popular border flowers, remaining for a long time in bloom. Flowers scarlet, crimson and yellow. Mixed, pkt. 5 cts.

AGERATUM

Free-flowering plants of dwarf growth, most desirable for bedding, also for greenhouse work during winter. Annual.

PRINCESS PAULINE (NEW). A very distinct and beautiful variety, of dwarf compact habit, rarely exceeding 5 inches in height, its peculiarity being that both blue and white are combined in the same flower. The body of the flower is white, while the stamens are of a light sky-blue, giving the clusters a pretty variegated appearance. This is one of the most distinct new bedding plants sent out for years. Pkt. 10 cts.

LITTLE DORRIT. Beautiful azure-blue; very free-flowering and fine for bedding. Pkt. 5 cts.

Tom Thumb, White. Flowers white. Pkt. 5 cts.

Mixed Varieties. Pkt. 5 cts.

ALYSSUM

Hardy annual, dwarf plants, very free in bloom. They thrive well in any garden soil and are extensively used for cutting and bouquet work. Useful also for winter blooming in the greenhouse.

Benthami (Sweet Alyssum). Very free bloomer; white and fragrant. Pkt. 5 cts.

BENTHAM COMPACTUM. A very compact variety, specially adapted for edges of beds and pots. Pkt. 5 cts.

Saxatile compactum. This variety produces a mass of golden yellow flowers early in the spring. Perennial. Pkt. 5 cts.

Mixed Varieties. Pkt. 5 cts.



Aquilegia (Columbine).

AMARANTHUS

Strong-growing and highly ornamental in foliage and free in flowering. By sowing early in a hotbed and transplanting, better results are obtained. Sow in the open ground in May. Tender annual.

Caudatus (Love-Lies-Bleeding). Long red drooping flower-spikes. Tall plants. Pkt. 5 cts.

Cruentus (Prince's Feather). Of rapid growth, with large crimson plumes. Recommended for extensive use in mixed borders or sub-tropical gardening. Height 3 feet. Pkt. 5 cts.

Finest Mixed. Pkt. 5 cts.

AMMOBIUM alatum grandiflorum. An Everlasting. Flowers white. Annual. 1½ feet high. Pkt. 5 cts.

ANTIRRHINUM (Snapdragon)

This is one of the finest of border perennials. Exceedingly attractive during summer, also very useful for greenhouse cultivation during winter and spring.

Majus album. Large white flowers. Pkt. 5 cts.

Majus Calathes. Crimson; white throat. Pkt. 5 cts.

GRANDIFLORUM VARIETIES. Choicest mixed colors. Pkt. 5 cts.

Tom Thumb Varieties. Very dwarf; splendid for borders. Finest Mixed. Pkt. 5 cts.

ANAGALLIS grandiflora (Pimpernel). Pretty low-growing plants, for beds and rockwork, constantly in bloom. Annual, growing about 6 inches high. Finest Mixed. Pkt. 5 cts.

AQUILEGIA (Columbine)

Very elegant, free-blooming, hardy perennials, suitable for beds, borders or shrubberies. They prefer a moist, sunny situation. Height 2 feet.

Single Varieties. Finest mixed. Pkt. 5 cts.

Double Varieties. Finest mixed. Pkt. 5 cts.

ASPERULA setosa azurea (Woodruff). Very pretty, sweet-scented, blue flowers. Hardy annual. Height 1 foot. Pkt. 5 cts.

ASTER (Callistephus Chinensis)

Usually known as French, German or China Asters. Very extensively grown both for beds, pots and cut-flowers; their diversity and generally compact growth render them almost universal favorites. They require a rich, loamy soil, and, as the roots are produced near the surface, a mulching of rotten manure will be found most beneficial. Seeds may be raised in greenhouse or window-garden in March. When the seedlings are large enough transplant into boxes and when the weather becomes warm enough plant outside.

CHRISTMAS TREE. An entirely new class that, on account of its habit of growth and free-flowering, is sure to be much in demand. The plants are tree-like in form, about 18 inches high and bear a Mignon-like flower at the end of each stem. The originator says that frequently a single plant will produce from 70 to 100 well-developed flowers from 1½ to 2 inches in diameter. As the plants attain a breadth as great as their height, they should be set at least 18 inches apart in the beds.

HÖHENZOLLERN. This splendid new Aster is a marked improvement on Queen of the Market, being early and having flowers nearly double the size. The flowers are similar in form to those of a good Comet Aster. They are very double and are borne on very stout stems. The plants are of bushy habit. We can strongly recommend this variety where large blooms are in demand early. White and Crimson. Each, pkt. 25 cts.

NEW "OSTRICH FEATHER." This is a new and very beautiful class of Asters. The plants grow 15 to 18 inches high and are of a strong, luxuriant, branching habit. The flowers measure 4 to 5 inches in diameter and are borne on long stems. The petals are long, wavy and so twisted as to give an extreme Comet effect. This strain of Asters is of real value both for garden decoration and for cutting. Pkt. 10 cts.

Boston Florists' White. This is the most popular variety among the florists around Boston for cutting; also one of the best bedding varieties. Pkt. 5 cts.

Chinese Mixed. A good variety, producing a large quantity of double flowers of various colors. Pkt. 5 cts.



Ostich Feather Aster.

ASTERS, continued

COMET, or PLUME. A beautiful and distinct class, with long, wavy, twisted petals, forming a loose yet dense half-globe, resembling the Japanese Chrysanthemum. Flowers $3\frac{1}{2}$ to 4 $\frac{1}{2}$ inches across. Height 15 inches.

Giant Rose. Superb new class; long twisted petals. Pkt. 10c.

Giant White. Beautiful variety; excellent for cutting. Pkt. 10c.

Giant Mixed. Many splendid colors. Pkt. 10 cts.

Splendid Mixed. Highly recommended for garden culture. Pkt. 10 cts.

Crown, or Cocardeau. Remarkably effective and charming. The plants bear a quantity of double flowers in many beautiful colors, all with snow-white centers. Finest Mixed. Pkt. 5 cts.

Dwarf Chrysanthemum-Flowered. In size of flower-heads and habit of growth, this surpasses all other dwarf varieties. The flowers are full, chrysanthemum-shaped, produced in clusters or bouquets, from 10 to 20 in a truss. Very delicate and beautiful in color. Height 6 inches. Splendid Mixed. Pkt. 10 cts.

Giant Emperor. A very large-flowered variety, double, and of splendid shades of color. Height 2 feet. Finest Double Mixed. Pkt. 10 cts.

German Quilled. Flowers double; the petals have the appearance of quills; rather stiff. Finest Mixed Colors. Pkt. 5 cts.

Jewell, or Ball. A magnificent class of Asters, with beautiful, perfect, ball-like flowers. Petals are incurved like Chinese chrysanthemums. Finest Double Mixed. Pkt. 10 cts.

LADY ASTER (New). Distinct by its graceful habit and light green ensiform foliage. Of unapproached freedom of blooming, from 40 to 70 buds, borne on slender stems, being successively produced by one plant. The colors include White (Lady in White), Rose and White Changing to Rose. All Colors Mixed. Pkt. 10c.

Queen of the Market. Extremely early, in bloom three weeks earlier than any other Aster. White and Finest Mixed Colors. Each, pkt. 10 cts.

SEMPLE'S GIANT. A grand variety of splendid habit; the tallest Aster yet introduced. Grows $3\frac{1}{2}$ feet high, with flowers 4 to 6 inches across. Colors range from white to pink-lavender. Blue, Pure White, Rose, Crimson. Finest Double Mixed. Each, pkt. 10c.

Truffaut's Improved Paony-Flowered Perfection. One of the most popular varieties with all growers; of pyramidal branching habit; very free-flowering. Extra-Fine Double Mixed. Pkt. 10 cts.

Vick's Branching. Very large pure white flowers borne on long stems; valuable as the latest-blooming Aster. Crimson, Pure White, Dark Blue, Rose, Mixed Colors. Each, pkt. 10 cts.

VICTORIA. This is the finest of all the Asters, being the most showy and massive, bearing enormous, recurved flowers of great fullness. It grows $1\frac{1}{2}$ to 2 feet high, and produces 20 to 25 large flowers on each plant.

White. Exceedingly useful for cutting or bedding. Pkt. 10 cts.

Finest Mixed. All colors. Pkt. 10 cts.

BALSAM (Impatiens)

These old-fashioned half-hardy annuals are so easily grown that it is a wonder more are not to be seen in gardens. The one mistake that is frequently made is in sowing the seed too early in the spring and in too much warmth. Sow in April; avoid overcrowding.

Double Camellia-Flowered. Finest mixed. Pkt. 10 cts.

Double Rose-Flowered. Splendid mixed. Pkt. 10 cts.

Double Mixed Colors. Pkt. 5 cts.

BACHELOR'S BUTTON. See *Centaurea Cyanus*.

BALLOON VINE (*Cardiospermum halicacabum*). Very pretty, rapid-growing climber; flowers white. Height 8 feet. Annual. Pkt. 5 cts.

BELLIS PERENNIS FL. PL. (Double Daisy)

Showy perennials for spring garden, growing about 4 inches high and easily raised from seed, which should be sown outdoors in April, the seedlings being afterward transplanted and grown in a shady spot.

Longfellow. Large, double, dark rose flowers. Pkt. 10 cts.

Snowball. Double; pure white. Pkt. 10 cts.

Finest Mixed. Pkt. 10 cts.

BRACHYCOME iberidifolia (Swan River Daisy). A very profuse-flowering, half-hardy annual, doing best in warm and dry situations. The flowers are blue and somewhat cineraria-like in form. Pkt. 5 cts.

BROWALLIA

Very pretty and free-flowering half-hardy annuals, growing about 18 inches high, with verberna-like flowers; exceedingly useful as pot-plants for the conservatory. Should be sown in hotbeds or some warm place.

NEW LARGE-FLOWERING SPECIOSA MAJOR. This is undoubtedly the finest variety. The plants grow about 1 foot high, in dense bushes covered with clear blue flowers much larger than those of other varieties. For beds, borders or pots, there are few plants with blue flowers to compare with it. Pkt. 15 cts.

CALANDRINIA grandiflora. Brightly colored little plants, splendid for edgings. Plant in sunny situations. Annuals. Pkt. 5 cts.

CALCEOLARIA HYBRIDA

Seed should be sown in August or September in light sandy loam. Water with a fine spray to prevent washing out the seed. When large enough to handle, transplant into 2-inch pots and grow in a cool house. Tender perennials.

Large-Flowering Varieties Mixed. Pkt. 25 cts.



Christmas Tree Aster. (See opposite page.)

CALENDULA (Pot Marigold)

Valuable hardy annuals for growing in poor soils or dry places, with little trouble, making a good display in masses for months together. Height 1 foot.

Officinalis, Meteor. Very large showy double flowers, of a lemon-yellow shade of color, striped with silver. Pkt. 5 cts.

Officinalis, Prince of Orange. Large imbricated double flowers of a rich glowing orange-red. Pkt. 5 cts.

CALIFORNIA POPPY. See *Eschscholtzia*.

CALLIOPSIS (Coreopsis)

Remarkably showy hardy annuals, very continuous in flowering, hardly any annual surpassing them in this respect. Thin out the plants well in an early stage of growth.

Coronata maxima. Yellow, spotted crimson. Pkt. 5 cts.

Grandiflora. Bright golden yellow flowers 3 inches in diameter, produced in great profusion. Hardy perennial. Pkt. 5 cts.

Finest Mixed. Pkt. 5 cts.

CAMPANULA (Canterbury Bells)

Well-known favorite hardy biennials, growing 2 feet high and bearing large bell-shaped flowers. The plants are of pyramidal form and very showy when well grown. Among the most attractive of hardy border plants.

Medium Single Blue. Pkt. 5 cts.

Medium Single White. Pkt. 5 cts.

MEDIUM CALYCANTHEMA (Cup-and-Saucer). Finest Mixed. Pkt. 10 cts.

Double Blue. Pkt. 5 cts. **Double White.** Pkt. 5 cts.

Double Mixed. Pkt. 5 cts.

CANARY CREEPER. See *Tropaeolum Canariense*.

CANNA

For grouping in beds or borders sow in heat in February, after cutting the hard outside shell on the seed and soaking in warm water for 10 hours. A rich deep soil and plenty of moisture are essential to success. Half-hardy perennials.

Crozy's New Dwarf Hybrids, Mixed. A dwarf-growing, free-blooming race, continuing in bloom until the end of the season. They embrace many rich and striking colors. Excellent for growing in pots. Pkt. 10 cts.

CARNATION, MARGUERITE

These most attractive Double Carnations come into flower from seed in three or four months. Seed should be sown in a hotbed in March. The plants continue to bloom until checked by frost.

They produce a large proportion of double, clove-scented flowers of various colors, and are particularly serviceable for cutting.

Finest Mixed. Pkt. 10 cts.

MALMAISON STRAIN, or IMPROVED. Producing larger flowers than the older variety, of perfect and beautiful form. Mixed colors. Pkt. 15 cts.



Carnation, Marguerite.



Dwarf Candytuft.

CANDYTUFT (Iberis)

Very showy hardy annuals growing about a foot high and producing a fine effect when grown in masses. The seed should be sown thinly or the young plants thinned out to obtain sturdy growths. Many of the varieties are sweet-scented. The dwarf varieties are splendid for bedding.

CIANT HYACINTH-FLOWERED WHITE. This is an improvement on *Empress*, having enormous spikes of bloom. Pkt. 5 cts.

Amara. White. Pkt. 5 cts.

Coronaria, White Rocket. Pkt. 5 cts.

Coronaria, "Empress." White; fine large showy spikes. Pkt. 5c.

UMBELLATA, ROSE CARDINAL. A striking and rich color.

Flowers a distinct deep rosy cardinal. Pkt. 5 cts.

Umbellata, Dark Crimson. Pkt. 5 cts.

Umbellata, Dark Purple. Pkt. 5 cts.

Hybrida, Dwarf Mixed. Dwarfier than the above varieties; splendid for bedding. Pkt. 5 cts.

Finest Mixed Colors. Pkt. 5 cts.

CANTERBURY BELLS. See *Campanula*.

CASTOR OIL PLANT. See *Ricinus*.

CATCHFLY. See *Silene*.

CELOSLA, or COCKSCOMB. Sow the seed in March or April in pans of well-drained, rich, sandy soil. After sowing, the pans should be placed in a hotbed, with a night temperature of 65 degrees, rising to about 70 degrees with sun heat. As soon as the seeds germinate, they should have plenty of light and a little air. When the plants are large enough to handle, they should be transplanted into 2½-inch pots. The plants should be kept close to the glass. They should be kept a little on the dry side to induce flowering. These cannot be grown without heat. German Mixed. Pkt. 10c.

CENTAUREA

Half-hardy perennials of the greatest value in the flower garden. The raising of stock from seed is far better than propagating from cuttings, being in every way reliable and far less trouble. A cool course from the time of sowing the seed is better than warmth in any case.

Candidissima. A dwarf, silvery white foliated plant; valuable for bedding. Height 12 inches. Pkt. 10 cts.

Cymnocarpa. A graceful silver-foliated variety of free growth; useful for bedding. Height 18 inches. Pkt. 10 cts.

CENTAUREA CYANUS (Bachelor's Button, or Corn Flower). Very free-flowering hardy annuals, growing 1½ to 2 feet high; extremely useful for cutting.

Finest Mixed. Pkt. 5 cts.

EMPEROR WILLIAM. This is the best dark blue variety. Pkt. 5c.

White. Pkt. 5 cts.

MARGUERITE. A variety worthy of extensive cultivation, superseding all the old varieties of *Centaureas*, and bearing flowers in great profusion; these are pure white and beautifully scented, and in form resemble the well-known Yellow Sweet Sultan. It is a hardy annual, and for a succession of bloom till frost, sow at different times from April to July. Pkt. 10 cts.

Suaevolens. See Sweet Sultan.

Moschatum. See Sweet Sultan.

CENTRANTHUS. A hardy annual, of free branching growth. Will do well in almost any soil, a dry position suiting it the best. Finest Mixed. Pkt. 5 cts.

CHINESE PRIMROSE. See *Primula Sinensis*.

CHRYSANTHEMUM (Annual Varieties)

All the varieties of single Chrysanthemums are remarkably showy and effective. They are hardy, of rapid growth, very profuse and continuous blooming. The flowers have a great range of color, and are of fine shape and substance, and with good cultivation measure 2 to 2½ inches in diameter. They are invaluable for cutting.

SEGMENT, MORNING STAR. (New). Bushy and compact plants, covered with large yellow flowers averaging 4 inches across. Exceedingly useful for cutting as well as for the garden. Pkt. 10 cts.

Carinatum. Single and double mixed. Pkt. 5 cts.

Double White. Pkt. 5 cts.

Double Yellow. Pkt. 5c.

CINERARIA

A greenhouse perennial of much beauty, and when well grown is one of the most decorative as well as useful of winter spring flowering plants. For winter blooming sow the seed in April and May, in shallow boxes, in fine light soil. In the culture of the Cineraria the mistake generally made is in growing the plants in a warm house instead of a cool one.

HYBRIDA FINEST MIXED. Imported seed. Pkt. 50 cts.

CLARKIA elegans. Hardy annuals of slender, branching growth and easy culture, very showy and profuse in flowering. Bright rosy purple flowers. Height 1 foot. Pkt. 5 cts.

COBEA scandens. A splendid half-hardy evergreen climber, with large, purple, bell-shaped flowers. Start the seeds in heat, setting them on edge, covering them one-half inch deep. Height 15 feet. Pkt. 10 cts.

COCKSCOMB. See *Celosia*.

COLEUS. Beautiful foliage plants, with varied and exquisite markings; half-hardy perennials. Finest Mixed Hybrids. Pkt. 15c.

COLINSIA. Hardy annuals of deserved popularity, growing 1 foot high; well adapted for growing in patches and clumps in the open or in blank spaces. Well suited to common garden soil, flowering more profusely than if sown in rich soil. Mixed. Pkt. 5c.

COLLOMIA coccinea. Bright scarlet. Hardy annual; grows about 15 inches high; blooms continuously till frost cuts it down. Pkt. 5 cts.

COLUMBINE. See *Aquilegia*.

CONVOLVULUS (Morning-Glory)

(*Ipomoea purpurea*)

Easily cultivated plants, of rapid growth under favorable conditions; the Major sections are half-hardy annuals, which are well adapted for covering summer houses, ornamental wire work, etc., a sunny aspect being best suited to them; the Minor sections are hardy annuals of dwarf growth, being better fitted for beds or borders, also needing a warm situation. All are very showy and effective when in flower, with a great diversity of bloom.

Major. Finest Mixed. Pkt. 5 cts., oz. 10 cts.

Minor. Finest Mixed. Pkt. 5 cts., oz. 25 cts.

Mauritanicus. Pretty bright blue; trailing; splendid for hanging baskets, vases, etc. Pkt. 5 cts.

JAPANESE MORNING-GLORY (*Ipomoea imperialis*). This is a distinct strain, embracing varied types of foliage, combined with immense size of flowers and a wonderful variety of colorings. The leaves vary greatly in size and form, ranging from deep green to rich golden yellow and many beautifully variegated. The flowers are of large size and show many new and distinct shades of yellow and orange; others are marked with tigered spots and blotches of carmine and deep purple. Owing to the slow germination of the seed, it should not be planted outside until the weather is warm enough. Finest Mixed. Pkt. 10 cts.

COREOPSIS. See *Calliopsis*.

CUCUMBER, Ornamental. See *Echinocystis*.

A Specialty

GROFF'S GLADIOLUS HYBRIDS OF "WORLD'S BEST" STRAIN

produce finer flowers than any others known in commerce. See page 30.

COSMOS

A half-hardy annual, growing 2 feet high, with extremely light and elegant foliage. This is a perfectly charming, fall-blooming plant; the flowers in shape resemble the single dahlia.

GRAND EARLY-BLOOMING FANCY. Flowers from 4 to 5 inches across. The colors range from pure white through shades of pink and red. Some of the white ones are delicately flushed or flecked with pink or mauve. This variety is much earlier than the old sort. Seed should be started inside and grown along in small pots before planting out. Pkt. 10 cts.

CYCLAMEN PERSICUM

The seed we offer of this favorite winter- and spring-flowering plant has been saved from the best varieties and cannot fail to produce flowers of the finest substance and of the most charming and diversified shades of color. The seed of *Cyclamen Persicum* is often sown too early in the year; from the middle of July to the end of August is the best time; the seedlings should be grown on to the flowering stage without any check whatever. The best results are obtained when a cool course of culture is pursued.

GIGANTEUM. Finest Mixed. Pkt. 50 cts.

CYPRESS VINE (*Ipomoea Quamoclit*). Half-hardy climbing annual of rapid growth, growing from 6 to 10 feet high; delights in an abundance of moisture during the summer. Finest Mixed. Colors bright scarlet, rose and white. Pkt. 5 cts.

DAHLIA

It is not sufficiently known that this popular flower can be easily raised from seed and be flowered the same season. Sown in February in gentle heat and planted out in the usual way in due course, a rapid growth will be made.

Double Large-Flowered. Finest Mixed. Pkt. 10 cts.

Single. Finest Mixed. Pkt. 10 cts.

DATURA Cornucopia (Trumpet Flower). Half-hardy annuals of very rapid growth, with large trumpet-shaped, sweet-scented flowers; too rich a soil should be avoided. French white inside and marbled with royal purple on the outside. Sow in heat and pot off the seedlings when strong enough; requires plenty of sunshine. Height 3 feet. Pkt. 10 cts.

DAISY, Double. See *Bellis*.

DELPHINIUM

The great improvement which has been effected in these splendid border perennials is such as to strongly recommend their culture from seed, the best of results with vigorous growth being thus obtained. They are of easy culture, and when well established form splendid objects for mixed borders or shrubberies. The plants are continuous in flowering and excellent for cutting.

FINEST HYBRIDS MIXED. Pkt. 10 cts.

Annual Varieties. See *Larkspur*.



Japanese Morning-Glories.



Double and Single Dianthus.

DIANTHUS (Pink)

These beautiful hardy border plants deserve a place in every garden. The improved forms of the Heddewigii section are remarkable for the brilliancy, diversity and size of their flowers and are worthy of special attention. If sown early they flower the first season and remain in bloom till late in the fall; in fact it is more satisfactory to treat them as annuals than as biennials. About 1 foot.

Chinensis flore pleno (Double Chinese Pink). Saved from the finest double flowers. Pkt. 5 cts.

HEDEWIGII FLORE PLENO (Double Japan Pink). Large flowers, very fine mixture of many beautiful colors. Pkt. 5 cts.

Imperialis flore pleno (Double Imperial Pink). Large double flowers in many colors. Pkt. 5 cts.

Heddewigii laciniatus. Large, showy, single flowers. Pkt. 5 cts.

Barbatus. See Sweet William.

DIGITALIS (Foxglove). Well-known hardy perennials, of easy culture, valuable for shrubby borders, where they will soon acclimatize themselves. Should be more grown than they are. Seedlings yield a great diversity of colors, from pure white to dark purple. Height 4 feet. Mixed Colors. Pkt. 5 cts.

DOLICHOS Labiab (Hyacinth Bean). Attractive climbing annual of rapid growth; flowers white or purple. Sow in April and May. Mixed. Pkt. 5 cts.

DRUMMOND'S PHLOX. See Phlox.

ECHINOYSTIS lobata (Wild Cucumber). Very rapid growing, hardy annual climber; grows 15 feet. Pkt. 5 cts.

ESCHSCHOLTZIA (California Poppy)

Very popular and extremely showy hardy annuals, producing a fine effect whilst in flower, and extending in beauty over a long period. Should not be grown in rich soil; a good situation being amongst rockwork or on banks in sunny positions. Height 1 foot.

California. Bright yellow, orange center. Pkt. 5 cts.

California alba. Flowers white. Pkt. 5 cts.

Finest Mixed. All colors. Pkt. 5 cts.

EXACUM affine. Charming half-hardy biennial, which blooms the first year from seed; forms dense clumps, with clusters of violet-purple, fragrant flowers. Height 18 inches. Pkt. 10 cts.

FEVERFEW. See Pyrethrum and Matricaria.

FORGET-ME-NOT. See Myosotis.

FOUR O'CLOCKS. See Mirabilis.

FOXGLOVE. See Digitalis.

GAILLARDIA (Blanket Flower)

Very showy hardy perennials, most useful for cutting or mixed beds; commencing to flower early in the summer and continuing to bloom until cut down by frost. The flowers are of large size and durability, embracing many brilliant and beautiful shades of color. By making an early sowing they will flower the first season. 18 in.

Grandiflora. Crimson and gold flowers. Pkt. 5 cts.

PICTA LORENZIANA. Finest mixed. Half-hardy annual with large, double flowers of various bright colors; fine for cutting. Pkt. 10 cts.

Fine Mixed. Pkt. 5 cts.

GAZANIA splendens. Large orange flowers, excellent for dry situations; tender perennials. Height 6 inches. Pkt. 10 cts.

GENTIANA Acaulis (Blue Gentian). This lovely early spring-flowering plant is worthy of every possible attention that can be bestowed upon it; a cool, moist situation should be chosen for the sowing of seed and the culture of the plants up to flowering stage. The plants should be wintered under glass, in cold districts, for the first season. The flowers are of an intensely deep blue color; hardy perennial. Height 5 inches. Pkt. 5 cts.

GILIA. Excellent, hardy, profuse-blooming annuals of light and elegant growth. Height 1 foot. Finest Mixed. Pkt. 5 cts.

GLOBE AMARANTH (Gomphrena). Showy annuals with everlasting flowers. Excellent for winter bouquets. Seed should be started in heat. Height 18 inches. Finest Mixed. Pkt. 5 cts.

GLOXINIA

The seed offered has been saved from the finest erect-flowering varieties, specially selected, and will produce flowers of the finest quality, embracing all the diversified tints of color to be found in the genus. The seed should be sown in a brisk moist heat; from 65 to 70 degrees is best until the seedlings are well established. Prick off into pans, and when in the second leaf, pot into 2½-inch pots, and grow on until sufficiently large enough to shift into 5-inch pots for flowering in August and September. In order to grow good bulbs for the second year, it is an excellent plan to plant the small bulbs from the 2½-inch pot into a frame in May, where they can grow undisturbed the rest of the season. Shade during bright sunshine.

HYBRIDS, FINEST MIXED. Pkt. 25 cts.

GODETIA. Very desirable plants of easy culture, ranking among the most beautiful and attractive of hardy annuals. The flowers are large and showy, and are most suitable for the margins of shrubberies, mixed borders or similar positions. The seed germinates freely; the seedlings should therefore be thinned out in an early stage to impart more vigor to each individual plant. Height 1 foot. Fine Mixed. Pkt. 25 cts.

GOLDEN FEATHER. See Pyrethrum.

GOURDS

Large- and small-fruited varieties of peculiar and varied forms, requiring the same treatment as squash, but seen to best advantage when trained over rustic arches or rockwork or trailing down sloping banks of soil. Half-hardy annuals.

Bottle-Shaped. Pkt. 5 cts.

Hercules' Club. Pkt. 5 cts.

New Miniature. Pkt. 5 cts.

GREVILLEA robusta. A most useful ornamental foliage plant for the cool greenhouse or indoor decoration, or when associated with foliage plants in the flower garden; the seeds when sown should be inserted edgewise to insure better germination. Pkt. 10c.

GYPHOPHILA (Baby's Breath). Extremely light and graceful plants of easy growth, flowering all summer. Useful also in pots for decorative uses. Useful to cut for mixing with other flowers. Mixed. Pkt. 5 cts.

HELIANTHUS (Sunflower)

The majestic stalks, bold outline and massive flowers of the large-growing varieties render them admirably adapted for intermingling in shrubby borders or in groups for distant effect, their bright golden yellow flowers being in full beauty during July, August and September. The smaller-flowered varieties are extremely floriferous, and very valuable for the ornamentation of mixed borders, and particularly useful for cutting.

CUCUMERIFOLIUS, "STELLA." Habit very branching; the plant is covered with small yellow, dark-centered flowers; one of the very best varieties; should be in every garden. Pkt. 5 cts., oz. 10 cts.

Henry Wiede. Single, yellow, dark center. Height 9 feet. Pkt. 5 cts., oz. 30 cts.

Giant Russian. Flowers single, yellow. Oz. 5 cts.

Uniflorus. Enormous single, yellow flowers, with a large, dark center, sometimes measuring 1 foot in diameter. Height 10 feet. Pkt. 5 cts.

HELICHRYSUM (Everlasting Flower). Excellent half-hardy annuals for mixed borders, but more particularly useful for dried flowers for winter bouquets, for which purpose the blooms should be cut before they are fully expanded, and dried in an airy, dark shed. Double Mixed, pkt. 5 cts.

HELIOTROPE

Delightfully fragrant flowers, excellent for bedding or pot culture, and particularly useful for cutting. The seed should be sown in warmth early in spring, the young plants being gradually hardened off. Perennials. Height 18 inches.

Dark Varieties. Finest Mixed. Pkt. 10 cts.

HEUCHERA sanguinea. A pretty dwarf hardy perennial, with numerous lovely spikes of bell-like flowers of the most brilliant coral-red. The spikes are splendid for cutting. Height 1 foot. Pkt. 15 cts.

HONESTY, or SATIN FLOWER (Lunaria biennis). Good early-flowering plant; the seed vessels, which are flat and broad, look like transparent silver, and are very pretty for winter bouquets of dried flowers. Height 2 feet. Pkt. 5 cts.

HONEYSUCKLE (French)

Showy hardy perennials; suitable for shrubby borders. Height 2 feet.

Red. Pkt. 5 cts. **White.** Pkt. 5 cts.

HOLLYHOCK (Althaea rosea)

Saved from a choice collection of the finest varieties, embracing all shades of colors, and which may be expected to produce fine double flowers. Seeds sown early under glass and grown on will bloom the same year. The young plants should be set singly in deep, dry soil enriched with decomposed manure.

DOUBLE FINEST MIXED. Pkt. 10 cts.

HUMULUS (Hop)

A very rapid-growing, hardy annual climber; valuable for quickly covering blank spaces.

Japonicus (Japanese Hops). Pkt. 5 cts.

Japonicus foliis variegatis. Leaves variegated green and white; very attractive. Pkt. 10 cts.

HYACINTH BEAN. See *Dolichos Lablab*.

IBERIS. See Candytuft.

IPOMÆA purpurea. See Convolvulus, Morning-Glory.

Quamoclit. See Cypress Vine.

JACOBÆA. See Senecio.

JACOB'S LADDER. See Polemonium.

LANTANA. Half-hardy perennials of shrubby growth, useful either in pots for greenhouse decoration, or planted out in mixed borders, flowering best when not over-potted or planted in rich soil; colors rich and various. Finest Hybrids Mixed. Pkt. 5 cts.

LA VENDER (The English Lavender). Grown for its delicious perfume. Pkt. 5 cts.

LARKSPUR (Delphinium)

These are amongst the best of hardy annuals, lasting a long time in flower, the colors being very diverse and extremely showy; the plants should be thinned out in good time to avoid overcrowding, and to secure the branching habit peculiar to nearly every kind now offered.

Dwarf Rocket. Finest mixed. Pkt. 5 cts.

Emperor. Double, finest mixed. Pkt. 5 cts.

TALL BRANCHING, STOCK-FLOWERS. Finest double mixed. Pkt. 5 cts.

LOBELIA

An invaluable class of plants for bedding, edging or ribbon gardening. The plants have been carefully selected, are very profuse and continuous in bloom; flowers a beautiful, rich dark blue color. *L. gracilis* should be particularly noted for its value in hanging baskets, or as a finish for flower vases; in both cases the effect produced by its long, drooping growth and great profusion of flowers is beautiful in the extreme. It is best grown as an annual, being of rapid growth.

Cardinalis (Cardinal Flower). Hardy perennial; flowers splendid rich scarlet. Pkt. 10 cts.

Erinus (Gracilis). Blue, of spreading habit, and free-flowering; most suitable for hanging baskets, vases, etc. Pkt. 10 cts.

Erinus Crystal Palace Compacta. Dwarf, dark blue. Pkt. 10 cts.

ERINUS EMPEROR WILLIAM (Blue King). Pkt. 10 cts.

White Perfection. Pure white. Height 6 inches. Pkt. 10 cts.

Mixed Varieties. Pkt. 10 cts.

LOVE-LIES-BLEEDING. See *Amaranthus caudatus*.

LUNARIA BIENNIS. See Honesty.

LUPINUS (Lupins). Old-fashioned and well-known plants of strong growth, with graceful foliage and long spikes of bloom; suitable for mixed borders and shrubberies, all being hardy annuals. Height 1½ to 2 feet. Finest Mixed. Pkt. 5 cts.

LYCHNIS

Hardy perennials in all but the most exposed situations, with large terminal trusses of very showy flowers; a light and rather rich loam suits them best.

Chalcedonica. Brilliant scarlet flowers. Pkt. 5 cts.

HAAGEANA HYBRIDA. Various bright colors mixed. Pkt. 5 cts.

MALOE grandiflora, Mixed. Handsome, free-blooming hardy annuals, with large showy flowers, suitable for mixed borders. Height 3 feet. Pkt. 5 cts.

MALVA moschata (Musk Mallow) This hardy perennial has musk-scented, rose-color blooms, is free-flowering and highly decorative for borders and excellent for cutting; when sown early will bloom the first season. Height 2 feet. Pkt. 5 cts.



Lobelia.

MIGNONETTE

The great advance that has been made in the raising of new kinds of this most popular, fragrant and beautiful annual leaves hardly anything further that can be desired. The plants when large enough should be thinned out to about 4 inches apart. If sown in a poor, light soil the fragrance will be much stronger.

BISMARCK. (New.) The first impression of onlookers has been that with this new Mignonette the climax of perfection in this universally popular plant has been reached, and this impression is strengthened when a bed of good Machel Mignonette, standing side by side with it, is compared with a bed of these powerful plants, which display such a boldness and vigor as to appear to be cast in iron without losing anything of their elegance. The growth of the plant is slow from the beginning, and it develops an exceedingly robust and compact-growing bush of an average height of 12 inches. Pkt. 10 cts.

Grandiflora, or Large-Flowering. Vigorous, tall and free growing, having long spikes of yellow and orange flowers. The best form of common Mignonette. Pkt. 5 cts.

Giant Crimson, or Pyramidal. This forms a short, robust, pyramidal growth, with large spikes of reddish tinted flowers; very sweet-scented, excellent. Pkt. 5 cts.

MACHET. Plants of strong, compact habit, with dense spikes of very fragrant, dark red flowers. Pkt. 10 cts.

Parsons White. The spikes are large and well shaped, with nearly white flowers. Pkt. 10 cts.

Common Sweet-Scented. Pkt. 5 cts.

MIRABILIS (Four O'clock, or Marvel of Peru). Grand border plants, with most brilliant flowers of various colors, thriving best in good loamy soil, not too rich in manure. Height 2 feet. Finest Mixed. Pkt. 5 cts.

MORNING-GLORY. See Convolvulus.

MYOSOTIS (Forget-Me-Not)

Splendid hardy perennials. All the varieties are beautiful and much prized for spring gardening. They are all early flowering and easily grown; delight in a moist situation.

VICTORIA. A beautiful variety of dwarf, bushy habit, bearing a profusion of large, bright, dark blue flowers, with characteristic central double blooms. The plant attains a height of from 5 to 7 inches and a circumference of 16 to 18 inches and when fully developed is quite globular in shape and perfectly covered with flowers which continue in full beauty for a long period. This fine variety is admirably adapted for edgings or masses and also for pot culture. Pkt. 10 cts., oz. \$1.50.

Palustris (True Forget-Me-Not). Dark blue; very beautiful; profuse flowering. Pkt. 5 cts., oz. \$1.

NASTURTIUMS

Tom Thumb, or Dwarf Varieties

Splendid plants for marginal lines to borders and indispensable summer bedding plants, of dwarf, compact habit, withstanding heat and drought. They succeed best and flower better in poor soil. Hardy annuals. Height 1 foot.

Finest Mixture of best sorts. Pkt. 5 cts., oz. 15 cts.

Cloth of Gold. Golden foliage and scarlet flowers. Pkt. 5 cts.

Crystal Palace Gem. Yellow and crimson. Pkt. 5 cts.

Empress of India. Intense crimson, dark foliage. Pkt. 5 cts.

King Theodore. Dark chocolate-crimson, dark foliage. Pkt. 5 cts.

Spotted King. Yellow spotted, dark foliage. Pkt. 5 cts.

Striped. Striped scarlet, very pretty. Pkt. 5 cts.

Yellow. Pure yellow. Pkt. 5 cts.

Tall, or Climbing Varieties

These are splendid, free-flowering vines, suitable for covering trellises, banks, screens, etc. Hardy annuals.

Bright Rose. Very delicate shade. Pkt. 5 cts.

Dark Crimson. Crimson. Fine. Pkt. 5 cts.

Dunnett's Orange. Splendid shade. Pkt. 5 cts.

Heinemann. Chocolate color. Pkt. 5 cts.

Pearl. White. Pkt. 5 cts.

Scarlet. Very brilliant. Pkt. 5 cts.

Scheuerflamum. Straw color. Spotted. Pkt. 5 cts.

Yellow Spotted. Pkt. 5 cts.

Finest Mixed. In splendid variety. Pkt. 5 cts., oz. 15 cts.

Lobb's Nasturtiums (*Tropaeolum Lobbianum*)

Very brilliant and effective half-hardy annuals, with dark green foliage, growing 6 to 8 feet high; excellent for trailing over verandas, trellis work or against walls in bare places. Thrives best in rich soil.

FINEST MIXED. Pkt. 5 cts., oz. 25 cts.



African Marigold.

MARIGOLD

These handsome half-hardy annuals when well grown cannot be surpassed either in mixed borders or when grouped together. They succeed best in moderately rich soil and in open situations, and are strongly recommended where a gorgeous display in the autumn is an essential feature.

VERY DWARF DOUBLE STRIPED. (New.) This splendid variety is well worthy of extensive cultivation. Its dwarf, compact habit makes it particularly desirable for borders or pots. The flowers are very pretty striped with brown. Pkt. 5 cts.

African Lemon. Flowers large, double. Pkt. 5 cts.

African Orange. Pkt. 5 cts.

French Striped. Pkt. 5 cts.

Marigold, Garden. See Calendula.

Marvel of Peru. See Mirabilis.

MATRICARIA eximia grandiflora fl. pl. (Feverfew). Very pretty and neat, small double white flowers; free-flowering. Hardy annual. Pkt. 5 cts.

MAURANDYA

Beautiful half-hardy perennial climber of slender growth, with tubular flowers. Well suited for trellises or walls. Can be successfully treated as annuals.

Barclayana. Flowers purplish blue; fine. Pkt. 5 cts.

Barclayana rosea. Rose; very fine. Pkt. 5 cts.

Barclayana alba. Fine white. Pkt. 5 cts.

Finest Mixed. All colors. Pkt. 5 cts.

MESEMBRYANTHEMUM

Invaluable half-hardy annuals for dry situations where they receive the full benefit of the sunshine, thriving well in but little soil; well adapted for beds, also for rockwork. Height 3 inches.

Cordifolium variegatum. Yellowish green and white foliage and rosy purple flowers. Very showy. Pkt. 10 cts.

MIMOSA pudica (Sensitive Plant). A tender annual of light and elegant growth, the leaflets of which fold up when touched; pretty clusters of purplish flowers are produced at the axils of the leaves. Height 2 feet. Pkt. 5 cts.

MIMULUS

Hardy perennials and general favorites, thriving best in rather moist situations; those grown for the beauty of their flowers are better when treated as half-hardy annuals. If sown early on warm borders they will flower the first year. Height 18 inches.

FIRE KING. New. Brilliant orange-scarlet. Pkt. 10 cts.

Tigridus. Finest Mixed. A splendid strain, producing large, elegantly spotted and richly marked flowers. Pkt. 10 cts.

Moschatos (Musk). Well-known popular plant, emitting a pleasing fragrance; flowers yellow. Height 1 foot. Pkt. 10 cts.

MUSK. See *Mimulus Moschatos*.

NEMOPHILA

Splendid, showy, free-flowering, hardy annuals for beds or edgings; excellent alike for spring or fall sowing.

Insignis. Bright blue, with white center. Pkt. 5 cts.

Insignis alba. Large, pure white. Pkt. 5 cts.

Maculata. White, spotted with purple. Pkt. 5 cts.

NICOTIANA

Affinis (White Tobacco). Pure white, long tube-shaped flowers, borne in clusters, exceedingly fragrant towards evening; valuable for open ground or greenhouse decoration, thriving well in the poorest soil. The seed should be sown early to ensure strong plants prepared by bedding-out time. Half-hardy annuals. Height 1 foot. Pkt. 5 cts.

Colossea. The leaves when young are prettily tinted with red. It makes astonishingly quick growth, soon attaining the height of 5 to 6 feet, with leaves often 2 feet in length and 1 foot in width; splendid for subtropical beds. Pkt. 10 cts.

NIGELLA. Interesting half-hardy annuals, with elegant cut foliage and curious flowers, properly known under the name of "Love-in-a-Mist;" of easy culture and last a long time in perfection. Pkt. 5 cts.

NOLANA. A hardy trailing annual, with large convolvulus-like white and blue blossoms. Fine Mixed. Pkt. 5 cts.

ONOTHERA (Evening Primrose). Very beautiful hardy perennials and biennials, extremely showy towards evening. All of easy culture, preferring light sandy soil. Mixed Varieties. Pkt. 5 cts.

OXALIS. Very dwarf and fast-growing half-hardy perennials, best suited for rockwork or sloping banks where there is no great depth of soil. Mixed. Pkt. 5 cts.

PANSY, or HEARTSEASE

In offering seed of this most popular plant we do so with utmost confidence. Having personally visited all the principal growers in Europe, we have been enabled to secure seed of the choicest strains. Too much importance cannot be attached to the culture of these beautiful plants, flowering as they do in great abundance for several months. When sown in the early spring a good display in most cases can be had in the following fall, but the best results are not obtained by so doing. To obtain fine blooms it is better to sow during the summer and transplant the seedlings into coldframes in September, protecting during the winter with mats or shutters. Pansies delight in a cool, moist, well-drained soil, enriched with decomposed barnyard manure. They should never be allowed to suffer for want of water.

HARMON'S SUPERB MIXTURE. Finest mixture of large-flowering and new bright high-colored sorts; the flowers are of finest form and great substance and this splendid strain represents the highest perfection of this favorite flower. Pkt. 25 cts., oz. \$6.

SUPERB NEW GIANT RUFFLED PANSY, "MASTER-PIECE." This strain represents the highest perfection in the Giant Five-Spotted Pansies, hence its name. The growth and general habit of the plant is strong, bushy and compact. The enormous flowers are borne well above the foliage on strong stems, possessing great substance, are perfectly round and contain the richest combination of colors that have ever been offered in a five-spotted strain of Pansies. Each petal is distinctly marked with a very large dark blotch and most of the flowers are margined with a light, white or yellow edge. Pkt. 20 cts.

SUPERB NEW GIANT QUADRICOLOR (RAINBOW).

The flowers are of noble form and measure up to 3 inches in diameter, the color of the two upper petals is a wonderful reddish steel-blue with white edge, sometimes with pink and white edge, the ground color of the lower petals is yellow marbled with red and steel-blue and margined with white. Pkt. 20 cts.

Giant, or Trimardeau. Finest Mixed. Large flowers of rich colors, each distinctly marked. Pkt. 10 cts., oz. \$3. Good mixed. Pkt. 5 cts.

French Large Stained. Large round flowers, beautifully blotched and stained; fine mixed colors. Pkt. 25c., oz. \$5. **Striped and Mottled.** Finest Mixed. Very beautiful and curiously marked. Pkt. 15 cts., oz. \$4.

Adonis. Beautiful light blue marked with a yellowish white face and large dark blotches. Pkt. 10 cts.

Fire King. The three lower petals each have a large blotch of deep brown-red or magenta, margined with yellow, while the upper petals are bright reddish brown. Pkt. 10 cts.

KING OF THE BLACKS (Faust). Flowers very dark, nearly black. Pkt. 10 cts.

Black-Blue. Pkt. 10 cts. **Brown-Red.** Pkt. 10 cts. **Emperor Frederick.** Dark purple with red and golden edge, gold-bronze face. Pkt. 10 cts. **Lord Beaconsfield.** Deep violet shading off to white. Pkt. 10 cts. **Prince Bismarck.** New. Beautiful yellowish bronze color, with well-defined eyes of good size and dark brown color. Pkt. 15 cts. **President Carnot.** Flowers large, of elegant shape and each of the five petals is marked with a deep violet blotch, which covers a greater part of its surface. Pkt. 10 cts. **Purple.** Pkt. 10 cts. **Yellow.** Pkt. 10 cts. **Snowflake (Candidissima).** New white. Excellent. Pkt. 15 cts. **Striped.** Pkt. 10 cts. **White with Purple Eye.** Pkt. 10 cts. **Yellow with Black Eye.** One of the finest and showiest varieties. Pkt. 10 cts.

PAPAVER, or POPPY

For hardiness and easy cultivation these showy plants cannot be surpassed. The annual varieties are numerous, and contain many rich and varied colors, all strikingly beautiful. The seed of these should be sown early where intended to bloom.

Danebrog (Danish Flag). Vermilion-scarlet flowers with large white blotch. Single. Height 1 foot. Pkt. 5 cts.

Glaucum (Tulip Poppy). Very showy flowers of vivid scarlet color; foliage bluish green. Height 1 foot. Pkt. 5 cts.

Mikado. Large double flowers, white, shaded crimson, beautifully cut and fringed at the edge. Pkt. 5 cts.

Scarlet Double. Large double scarlet flowers. Pkt. 5 cts.

Shirley. Seed saved from flowers of large size and most distinct and pleasing colors, and will be found to contain many new and beautiful shades. The flowers are large and exceedingly graceful and elegant; the colors pure, soft and varied, ranging from bluish-white, rose and delicate pink through innumerable tints to bright crimson. Pkt. 5 cts.

Snowdrift. Pure white, very double, lacinated flowers of enormous size. Height 2 feet. Pkt. 5 cts.

Cardinal. Double scarlet flowers on a white ground. Height 1½ feet. Pkt. 5 cts.

Pavonium (Peacock Poppy). Brilliant scarlet, with a glossy black ring near the base of the petals. Height 1 foot. Pkt. 5 cts.

Umbrosom. Bright rich crimson with black blotch. Height 1 foot. Pkt. 5 cts.

The Bride. Single pure white flowers. Height 2 feet. Pkt. 5 cts.

Carnation-Flowered Mixed. Pkt. 5 cts., oz. 25 cts.

Paeony-Flowered Mixed. Pkt. 5 cts., oz. 25 cts.

Perennial Varieties

Nudicaule Finest Mixed (Iceland Poppies). Pkt. 5 cts.

Nudicaule. Clear yellow. Pkt. 10 cts.

Nudicaule album. Pure white. Pkt. 10 cts.

Nudicaule aurantiacum. Orange-scarlet. Pkt. 10 cts.

Oriental. Very large, scarlet, with black blotch. Height 3 feet. Pkt. 10 cts.

PASSION FLOWER (Passiflora). Greenhouse climbers, with large, showy flowers. Sow the seed in heat. Pkt. 10 cts.

PERILLA Nankinensis. Half-hardy annuals with very dark foliage, exceedingly useful in the flower garden. Sow in slight heat and protect in a frame until danger from frost is over. Height 1½ to 2 feet. Pkt. 5 cts.



Pansies.



Pentstemon.

PENTSTEMON

Hardy perennials of the best description, producing a quantity of flowers during the season, useful alike for cutting and on the plant. They are best treated as annuals, the seed being sown in gentle heat in February and March, and grown on as half-hardy plants till planted out in May, when they make a fine display the same season, or seed may be sown about June and the plants given protection during the winter. Height 2 feet.

Finest Mixed. From the handsomest varieties. Pkt. 10 cts.

PETUNIAS

Richness and diversity of color, coupled with profusion and duration of bloom, render this an exceedingly attractive and favorite plant for both indoor and outdoor cultivation. When not planted in too rich a soil they will flower most profusely all summer. For broad margins to shrubbery borders, for vases and baskets, as well as for pot culture, they are highly recommended. Half-hardy annuals of spreading growth. Height 1 to 1½ feet.

Hybrida, Finest Mixed. A magnificent variety; splendid colors in great variety. Pkt. 10 cts.

Nana compacta multiflora. Remarkable for its dwarf, compact habit, profusion of bloom and brilliant striped flowers; very effective. Pkt. 10 cts.

SINGLE FRINGED, SUPERB MIXED. Very pretty, large, single flowers, with beautifully fringed edges. Pkt. 20 cts.

Grandiflora Kermesina. Brilliant crimson, large flowers. Pkt. 15c.

Grandiflora marginata. Large flowers, green bordered and beautifully veined. Pkt. 15 cts.

Grandiflora purpurea. Deepest velvety crimson; one of the finest varieties. Pkt. 15 cts.

Grandiflora Venosa, Steel Blue. Extremely handsome, beautifully veined. Pkt. 20 cts.

GRANDIFLORA FL. PL. EXTRA-FINE MIXED. The seed of the double-flowered varieties is produced by careful hybridization and produces a fair percentage of double flowers, many of which possess much merit. Pkt. 25 cts.

Grandiflora rosea fl. pl. Very showy color, splendid variety. Pkt. 25 cts.

Grandiflora fimbriata fl. pl. (Double Fringed). Extra large, double fringed flowers. Finest mixed. Pkt. 50 cts.

Grandiflora fimbriata fl. pl. Lady of the Lake. Splendid double, pure white fringed variety; large flowers. Pkt. 25 cts.

PHLOX DRUMMONDII

An exceedingly beautiful and highly popular class of half-hardy annuals, producing a great profusion of rich and most brilliantly colored flowers of many striking and effective hues, and continuing to bloom the whole of the summer. They are eminently suitable for summer bedding, as they make a gay and effective display. Few annuals, if any, can equal them in beauty, and no garden, however small, should be without them. They are seen to the best advantage on well-drained land; stagnant moisture does not suit them, nor should they be shaded; in favorable situations the seed can be sown where the plants are to remain in April or May, or they may be sown thinly in February or March in well-drained pots or pans, in sandy loam, and placed in a greenhouse or gentle hotbed. Height 1 foot.

GRANDIFLORA, SPLENDID MIXED. This is a large-flowered variety, an improvement on the older kind. Pkt. 10 cts.

Alba. Pure white. Pkt. 5 cts.

Coccinea. Scarlet. Pkt. 5 cts.

PHYSALIS FRANCHETII

This gigantic species of the showy Japanese Winter Cherry is of very striking appearance, producing bright red fruits, which are enclosed in a semi-transparent calyx, generally measuring about 3 inches in length and from 7 to 8 inches in circumference; bright orange-scarlet in color when nearing maturity. The plant is of sturdy habit, upright, unbranched and grows about 1½ feet in height. It is hardy and of the easiest culture, only requiring to be sown in gentle heat in spring and planted out-of-doors in May or June, when it will make a fine display during the fall. Pkt. 10 cts. (See cut below.)

PINK. See Dianthus.

POLYANTHUS (Primula Veris). Charming early spring-flowering plants, half-hardy and very effective in beds or masses. They succeed best in rich soil and in a somewhat moist and partially shaded position. The seed should be sown in shallow pans or boxes, and be stood in a cool frame or a shaded place, covered with glass, if possible, to insure moisture, which must be maintained until the seed is germinated. Sow early in the spring. Fine Mixed. Pkt. 10 cts.



Physalis Franchetii.

POLEMONIUM grandiflorum (Jacob's Ladder). Greek Valerian. Hardy perennial with showy flowers. Mixed colors. Height 2 feet. Pkt. 5 cts.

POPPY. See Papaver.

PORTULACA

A beautiful class of hardy annuals specially adapted for shallow soils. They are charming dwarf plants for dry sunny situations and exposed rockwork, flowering profusely during the hottest weather. Height 3 inches.

Single Finest Mixed Colors. Pkt. 5 cts.

Double Finest Mixed. Brilliant and striking colors. Pkt. 10 cts.

PRIMULA SINENSIS (Chinese Primrose)

Considerable care is necessary in order to secure the successful germination of the seed of the choice kinds. The most suitable periods for sowing are April and May for fall, and June, July and August for spring blooming. Shallow pans, well drained, are the best, the soil consisting of sandy loam and leaf soil worked through a fine sieve; the pans when thus prepared should be well watered before the seed is sown. Only a slight covering of soil or sand is needed. The principal thing to be guarded against is drought; the soil should be kept in as equable a degree of moisture as possible. A good method is to cover the soil with sphagnum moss until growth commences.

Extra Fine Mixed. Of strong, robust growth; large, beautiful fringed flowers on strong stems. Pkt. 25 cts.

Fringed Red. Splendid deep red. Pkt. 25 cts.

Fringed White. Large flowers, with yellow eye, finely fringed. Pkt. 25 cts.

Fringed Blue. Beautiful rich blue color, of large size. Pkt. 25 cts.

Double Finest Mixed. Comprising many beautiful colors. Pkt. 50 cts.

PRIMULA OBCONICA

A pretty and interesting Primula, with flowers of a soft lilac shade of color, blooming continuously from spring till autumn. In habit and foliage it resembles the beautiful *P. cortusoides*, and is one of the most useful Primulas for pot culture or for the open border during the summer months. To obtain good plants for winter and early spring flowering the seed should be sown in warmth the previous April or May, and wintered in a cool greenhouse or frame. Height 9 inches. Pkt. 25 cts.

PYRETHRUM (Feverfew)

Hardy perennials, but best treated as half-hardy annuals for all practical purposes in bedding. Sow in March.

AUREUM SELAGINOIDES. Particularly dwarf, compact habit, prettily serrated; bright yellow foliage. Height 9 inches. Pkt. 10c.

Aureum (Golden Feather). Bright golden yellow foliage, invaluable for all practical purposes in bedding. Height 9 in. Pkt. 10c.

Double White. Very pretty clusters of pure white flowers. Height 2 feet. Pkt. 5 cts.



Primula Sinensis.



Salvia splendens.

PRINCE'S FEATHER. See *Amaranthus Cruentus*.

RESEDA odorata. See Mignonette.

RHODANTHE

Half-hardy annuals of extremely showy character under pot culture for house decorations, lasting well under unfavorable conditions. Should be sown in the spring, with a little warmth until the plants gain strength. Out-of-doors the seed should be sown in May, and the flowers cut before they are fully expanded if required as everlasting for winter use in vases. Height 1 foot.

Maculata. Bright pink, with crimson circle. Pkt. 5 cts.

Maculata alba. Pure silvery white. Pkt. 5 cts.

Manglesii. Beautiful bright rose-colored flowers. Pkt. 5 cts.

RHODOCHITON violabile. An interesting and useful climber for either greenhouse or summer garden. Pkt. 10 cts.

RICINUS (Castor Oil Plant)

These are noble, large, ornamental-leaved plants of majestic appearance for making bold beds, when well grown attaining a height of 6 to 12 feet; grand for sub-tropical gardening. Half-hardy annuals of rapid growth. The seed should be sown in warmth about March, the better way being to sow each seed separately in 3-inch pots to prevent any after check or injury to the roots; they will need repotting to carry the plants on until May.

Borboniensis arboreus. Large, purplish foliage. Pkt. 5 cts.

Gambodgensis. Of dwarf, compact habit, foliage intense deep purple; best dark-leaved sort. Height 4 feet. Pkt. 5 cts.

Sanguineus. Reddish purple leaves. Height 8 feet. Pkt. 5 cts.

ZANZIBARIENSIS. A distinct race from east Africa, growing to a large size and varying in color from pale green to brownish purple. Pkt. 5 cts.

Finest Mixed. Pkt. 5 cts.

ROCKET (Hesperis)

Hardy perennials of rapid growth, producing numbers of flowers early in spring when sown the previous summer. Height 2½ feet.

Purple, White and Mixed Colors, each, Pkt. 5 cts.

ROSE CAMPION. A hardy perennial, valuable for shrubbery borders where it can remain undisturbed; profuse flowering and lasting in beauty a long time; flowers a bright crimson, with silvery foliage. Height 2 feet. Pkt. 5 cts.

SALVIA

Valuable half-hardy perennials, very profuse in flowering and of rapid growth. Seeds should be sown early in a gentle heat.

Splendens. Vivid scarlet, free-flowering variety. Pkt. 10 cts.

SPLENDENS, INGENIEUR CLAVENAD. Brilliant scarlet; very early; blooms continuously. Pkt. 10 cts.



Scabious.

SALPIGLOSSIS. Half-hardy annuals, elegant late summer-flowering plants, of great diversity in color, beautifully penciled in rich tints of yellow, purple and brownish red. Of easy culture. **Finest Mixed.** Pkt. 10 cts.

SCABIOUS

Hardy biennials, but which may be also successfully grown as hardy annuals, when they make a good display in the fall. Very useful for cutting or for growing in mixed borders.

CAUCASICA FLORE ALBO (New). A hardy perennial of most essential service, either on the plant or when the flowers are used in the cut state. The flowers are produced in verberna-like trusses, being of a beautiful clear white. This perennial is rapidly gaining in favor for the herbaceous border, thriving best when the soil is not rich. Height 2 feet. Pkt. 10 cts.

CAUCASICA. Magnificent half-hardy perennial, with beautiful large, pale blue flowers; grows about 2 feet high. Pkt. 10 cts. **Large-Flowered Mixed.** Pkt. 5 cts.

SCARLET RUNNERS. See Beans, page 2.

SCHIZANTHUS. Annuals of free-flowering character, thriving best in well-prepared and rather rich soil. All are suitable for growing in the open border, but the varieties of *S. retusus*, which are half-hardy annuals growing about 2 feet in height, may be sown in pots in the autumn for use early in spring.

Finest Mixed. Pkt. 5 cts.

SENECIO elegans flore pleno (Double Jacobæa). Profuse blooming, hardy annuals, with showy double flowers, very useful for beds, also well suited for planting in new shrubberies. Thrives best in a light soil. **Finest mixed.** Pkt. 5 cts.

SENSITIVE PLANT. See *Mimosa Pudica*.

SNAPDRAGON. See *Antirrhinum*.

SILENE Armeria (Catchfly). Hardy annuals, very reliable for bedding purposes, being free-blooming plants, with bright, attractive flowers. Thrive well almost anywhere. **Mixed colors.** Pkt. 5 cts.

SMILAX (Myrsiphyllum asparagoides). An excellent climbing plant with small, beautiful dark green foliage. Pkt. 5 cts.

STATICE (Everlasting)

Easily cultivated plants, admirably adapted for poor soils or dry situations, and for raised beds or sloping ground where not shaded.

Suworowii. Produces freely long spikes of beautiful flowers of a bright rose color; hardy annual. Height 18 inches. Pkt. 5 cts.

TARTARICA. A beautiful white variety, splendid for winter bouquets; perennial. Pkt. 5 cts.

STOCK (Gilliflower).

The following are confidently recommended as the best types of the various classes; they are distinct in character, and will produce a large percentage of perfectly double flowers. All varieties are desirable for pot culture or bedding out, and are greatly prized as cut-flowers, both for their beautiful colors and delightful fragrance. The seed we offer is procured from the best growers in Germany. Seed should be sown in March or April, in heat, or outdoors in May and June. A light soil and high cultivation enhance the beauty of the flowers.

GIANT PERFECTION. Finest mixed. A splendid race of strong pyramidal growth and fine branching habit, bearing long spikes of beautiful large double flowers. Height 2 feet. Pkt. 10 cts.

Dwarf German Ten Weeks. Dwarf, compact-growing, free-flowering sort, producing trusses of good sized double flowers; excellent for bedding. Height 1 foot. Pkt. 10 cts.

Large Flowering Dwarf Ten Weeks. Blood Red, Brilliant Rose, Canary Yellow, Light Blue, Violet and White. Each, 10 cts. per pkt.

DRESDEN PERPETUAL or BRANCHING TEN WEEKS, FINEST MIXED. A beautiful class of strong growth and branching habit, producing trusses of beautiful double and delightfully fragrant blooms. Pkt. 10 cts.

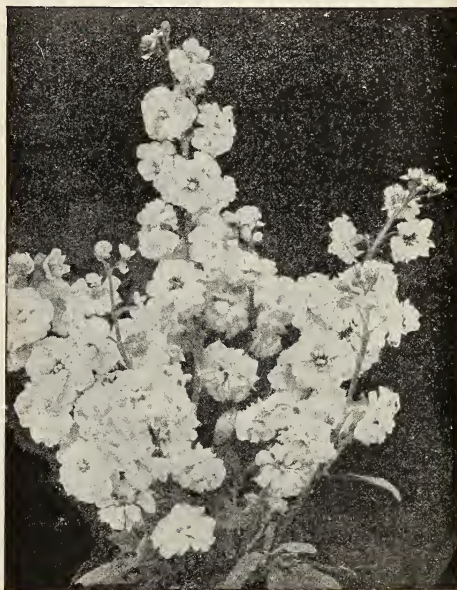
Dwarf Forcing Ten-Weeks Snowflake. A very effective wall-flower-leaved variety, the earliest white variety, excellent for forcing; large spikes of snow-white flowers. Pkt. 10 cts.

PERPETUAL or BRANCHING WHITE PRINCESS ALICE. A continuous flowering, pure white, early variety; excellent variety for cutting. Pkt. 10 cts.

White Giant Perpetual. Has one enormous spike of large double pure white flowers, 2 to 2½ feet high; the finest Stock in cultivation, very fragrant. Pkt. 10 cts.

Cut and Come Again. Extra fine double-branching, ever-blooming Stock. The more it is cut the freer it grows and flowers. Pkt. 10 cts.

SUNFLOWERS. See *Helianthus*.



Princess Alice Stock.

SWEET PEAS

Each of the following varieties, pkt. 5 cts., oz. 10 cts., unless otherwise noted; purchasers may select 6 pkts. for 20 cts.

Sweet Peas are increasing in popularity every year, and the beautiful varieties now offered can be recommended with every confidence. The culture should be of the very best description, mulching with manure and watering freely, and to insure fine blooms over-crowding should be avoided. Don't gather the blooms grudgingly. The more you cut the longer the vine will continue to flower. Remember, when they go to seed, Sweet Peas will cease flowering. Don't expect Sweet Peas to thrive in soil too poor for any other culture, or in a sunless location.

HARMON'S SPECIAL MIXTURE. This mixture contains over 50 of the finest large-flowering varieties. We have made a special effort to give our customers the finest mixture obtainable. Pkt. 5 cts., oz. 15 cts., $\frac{1}{2}$ lb. 30 cts., lb. 75 cts.

Finest Mixed. All colors. Pkt. 5 cts., oz. 10 cts., $\frac{1}{2}$ lb. 20 cts., lb. 50 cts.

Double Finest Mixed. Contains a large percentage of beautiful double flowers. Pkt. 5 cts., oz. 10 cts.

BEST MAUVE VARIETY—
Dorothy Tennant. Pure violet or rosy mauve. Splendid.

WHITE VARIETIES—
Blanche Burpee. Finest white in cultivation. Flowers of immense size.

Emily Henderson. One of the finest whites.

Mrs. Sankey. A splendid pure white variety.

BEST BLUE VARIETY—
Captain of the Blues. Standards bright purple-blue, with pale blue wings. A very striking variety.

PURPLE and MAROON VARIETIES—
Black Knight. New. A deep maroon; clear, shining standard.

Boreatton. Deep maroon. A splendid variety.

Duke of Clarence. First-class, ranking with the best in size and substance; color deep rose-scarlet, bordering on maroon.

Shahzada. New. The finest of the dark-colored varieties.

A very rich dark maroon.

Stanley. Deepest carmine; standard glossy, finely laced with deeper shades. A very fine variety.

BLUSH VARIETIES—
Blushing Beauty. Soft pink, with lilac.

Countess of Aberdeen. White, margined with pale pink.

Katherine Tracy. Flowers of large size, perfect form and most beautiful color of bright, rich pink.

Modesty. A beautiful pale blush.

Mrs. Gladstone. Rich rose-pink; of good size.

CARMINE VARIETIES—
Chancellor. New. Standard bright orange; wings bright orange-pink, a shade lighter than the standards. Oz. 15 cts.

Prince Edward of York. New. Finely expanded standard of a charming shade of scarlet; wings of deepest rose-color.

Prince of Wales. A bright deep rose of grand size; three and frequently four on a stem.

Princess Victoria. Light scarlet standard; wings shading to crimson; abundant bloomer.

Salopian. New. A variety of excellent form; standard suffused with orange, scarlet and crimson-lake; wings crimson, veined with purple.

CRIMSON VARIETIES—
Firefly. Foremost of the brilliant scarlets.

Invincible Scarlet. Bright crimson-scarlet.

Mars. The most intense and best formed of all the reds. A gorgeous flower of large size. Color deep pure crimson.

LAVERNE VARIETIES—
Celestial. Pure azure-blue. Beautiful.

Creole. Pinkish lavender.

Lady Nina Balfour. A very delicate mauve color.

New Countess. New. Pure light lavender; self-color.

PINK VARIETIES—
Red Riding Hood. A departure in form. Color rosy pink; remarkably long stems; very fragrant.

Venus. Wings salmon-buff; standard rosy pink.

ROSE VARIETIES—
Eliza Eckford. Standard beautiful rose; wings striped. Very attractive.

Lady Mary Currie. New. Deep orange-pink, delicately shaded rose lilac. Oz. 15 cts.

Lady Penzance. Bright rose; very striking and distinct.

Mikado. Orange-cerise, striped white; splendidly shaped flower.



Sweet Peas.

Ovid. A rich rose color; extra-fine variety.

Prima Donna. A most lovely shade of soft pink; of large size and fine form. A grand variety, frequently four flowers on a stem.

Royal Rose. Standard deep rosy pink; wings a charming light rosy pink; almost a self-color.

YELLOW or BUFF VARIETIES—
Golden Gleam. New. Pale primrose-yellow.

Mrs. Eckford. Delicate primrose tint; most effective when bunched.

Queen Victoria. New. Soft straw-yellow, overlaid with faint purple. Splendid.

BEST CRIMSON FLAKE—
America. New. White, blotched and veined scarlet.

RED and ROSE FLAKES—
Aurora. Very large flowers, beautifully flaked and striped on a white ground with bright orange-salmon.

Mrs. J. Chamberlain. Of extra fine form and size; white, heavily striped and flaked with deep clear rose.

BEST MAUVE FLAKE—
Cady. White, striped rosy lilac.

BLUE FLAKES—
Gray Friar. Very distinct in color and markings; of good size and form; the general effect is gray.

Wawona. A new and distinct shade of beautiful heliotrope, delicately striped with white.

MAROON and PURPLE FLAKES—
Princess of Wales. White, striped mauve.

Senator. A fine large chocolate-striped flower; very showy.

RED and ROSE BICOLORS—
Apple Blossom. A fine large hooded flower of delicate rose; splendid.

Blanche Ferry, Early. A very attractive variety, with deep rose standard; white wings, tinted pink. Very early.



Verbena hybrida.

SWEET PEAS, continued**RED AND ROSE BICOLORS—**

Coquette. Deep primrose color, just shaded fawn, suffused with a pleasing and subtle tint of purplish rose. Oz. 15 cts.

Crown Jewel. Standard delicate creamy rose; pale primrose wings. Large flower.

Duke of York. White, striped with pinkish purple.

Little Dorrit. Carmine, tinted pink; wings white.

Painted Lady. Pink and white; very profuse bloomer.

SALMON OR ORANGE BICOLORS—

Countess of Powis. New. Glowing orange, suffused with light purple.

Orange Prince. Bright orange-pink; splendid when bunched.

WHITE GROUND—

Ramona. A large, perfectly formed flower of fine substance and attractive markings; color a creamy white ground, delicately striped and barred with a soft pinkish purple.

Stella Morse. Cream-colored wings; standard pale pink. One of the best.

PIGOTEE EDGES—

Butterfly. White, tinted lilac.

Lottie Eckford. White ground, suffused with heliotrope, deepest near the margins.

SWEET CLOVER (*Trifolium suaveolens*). Crimson; hardy biennial. Height 3 feet. Pkt. 5 cts.

SWEET SULTAN

Half-hardy annuals of essential service for cutting, also well suited to grow in mixed borders. Average garden soil will suit them well. Height 18 inches.

Yellow (*Centaurea suaveolens*). Beautiful bright golden yellow flowers. Pkt. 5 cts.

SWEET WILLIAM (*Dianthus barbatus*). Popular hardy biennials of the easiest culture, well suited for shrubbery borders or marginal lines. Sloping banks where there is not often too much moisture is also a good place for them. The seed should be sown in spring to flower the following year. Height 18 inches. Extra Fine Mixed. Pkt. 5 cts.

TASSEL FLOWER (*Cacalia coccinea*). A distinct free-flowering hardy annual, with orange-scarlet flowers, produced in trusses. Height 1 foot. Pkt. 5 cts.

THUNBERGIA. Very charming tender annuals which should be raised in a moderate heat and grown in warmth until they commence to flower. Finest Mixed. Pkt. 5 cts.

TROPAEOLUM

Very brilliant and effective half-hardy annuals growing 6 to 8 feet in height; excellent for training over verandas, trellis-work or against walls in bare places. Thrive best in rich soil.

Canariense (Canary Creeper). A well-known climbing plant with elegantly fringed, bright yellow flowers. Pkt. 10 cts.

Lobbianum, Finest Mixed. Dark foliage. Pkt. 5 cts.

VENIDIUM calendulaceum. A dwarf branching annual, with large woolly leaves nearly covering the ground and bearing profusely flowers somewhat resembling the Gazania, of a bright yellow shaded with orange, which close at sunset; a capital border plant. Height 1 foot. Pkt. 5 cts.

VENUS' LOOKING-GLASS. Hardy annual of compact growth, very profuse in flowering; suitable for beds or edgings. Mixed Blue and White. Height 6 inches. Pkt. 5 cts.

VERBENA

Verbenas are invaluable for summer bedding purposes, flowering freely the first year from seed; the constitution of seedlings is also better than that of cuttings, with less liability to disease and mildew. The seed should be sown early, being well looked after until germination is ensured, a cool, or at most a temperate treatment being better than heat. Half-hardy perennial.

Hybrida, Finest Mixed. Saved from the finest flowers of a splendid collection. Pkt. 10 cts.

MAMMOTH, EXTRA SELECTED. New. Large-flowered. Very fine. Pkt. 10 cts.

VINCA. Evergreen perennial plant, completely covered for months with handsome single flowers. Does equally well in the greenhouse. Start the seed in heat. Finest Mixed. Pkt. 5 cts.

VIOLA odorata. Exceedingly useful hardy perennials for bedding purposes; flowers very profuse and fragrant; succeeds best in a shady position. Height 6 inches. Finest Mixed. Pkt. 5 cts.

VIRGINIAN STOCK. Early free-flowering hardy annuals, of dwarf and compact habit, thriving well in almost any soil. Height 6 inches. Mixed. Pkt. 5 cts.

VISCARIA oculata. Profuse-flowering, hardy annual, useful for mixed borders. Beautiful rose color, with a rich crimson eye. Height 1 foot. Pkt. 5 cts.

WALLFLOWER. Very pretty half-hardy perennials, bearing long spikes of remarkably sweet-scented flowers. Start the seeds in heat. Finest Mixed. Pkt. 5 cts.

WHITLAVIA grandiflora, Mixed. A hardy annual with large, showy flowers; very free-flowering. Height 12 inches. Pkt. 5c.

XERANTHEMUM. Very showy hardy annuals, which supply a profusion of flowers, which are splendid for drying as everlasting for winter bouquets, being very easily cultivated. Double Mixed. Pkt. 5 cts.

ZINNIAS

These attractive and decorative half-hardy annuals are most desirable plants for mixed or bedding purposes and are remarkable for the profusion and duration of their blooms, which are extremely useful for cut bouquets. The double Zinnias are exceedingly handsome, the flowers being notable for their size, form and brilliancy.

Tall Double Finest Mixed. Superb mixture saved from the finest double and brightest colored flowers. Pkt. 5 cts., oz. \$1.

ROBUSTA GRANDIFLORA PLENISSIMA (Giant, or Robust). Excellent class; enormous flowers. Pkt. 10 cts., oz. \$1.25.

MIXED FLOWER SEEDS FOR WILD GARDENS

Suitable for sowing in odd corners, bare spots, around shruberies, etc. No one who has not seen a wild flower bed can form any idea of its possibilities. When flowering commences, something new blooms almost daily. Pkt. 5 cts., oz. 15 cts.



Double Zinnia.



H. T. HARMON & CO.'S FINEST MIXED LAWN GRASS SEED

This mixture has been carefully prepared from the finest dwarf evergreen grasses and cannot fail to give satisfaction. We can supply a cheaper grade of Lawn Grass seed, but we recommend our own as being superior to all others.

Quart 25 cts., peck \$1.25, bushel \$4. A cheaper mixture 15 cts. per pound.

HOW TO MAKE A LAWN. A well-made and properly kept lawn is always one of the most important features in connection with any garden, especially that surrounding a residence. Where it is improperly leveled and made in the first place, the defects in the surface caused by holes or subsidence of the soil in one place or another cannot well be satisfactorily remedied. The form and extent of the Lawn will, of course, vary in almost every case; the more it covers, the better will be the effect produced if the work has been well done; and, on the other hand, the more prominently will any inequalities be seen. Lawn preparations should be commenced in the fall, and if the site is not naturally drained it must be made so artificially. An undulating or a gravelly subsoil will alone usually insure a sufficient drainage. The various levels should then be marked and the whole dug over about a spit deep, and as evenly as possible. If the soil is of fairly good quality, and not very heavy, there will not be any difficulty in doing this, or in the formation of the Lawn afterwards. Where it is very poor and sandy the addition of some that is heavier and of better quality will be advisable, as there is a great difference throughout the season in the appearance of the Lawns, according to the depth and quality of the soil beneath. This may appear somewhat needless, but the work should be considered as one of a permanent character, and after-results will well repay the extra trouble and expense incurred. The soil having been thus dug all over alike, should be allowed to remain until spring, if possible, when exposure to rain and frost will have rendered it solid and in good condition for treading and raking down in preparation for turf or seed, whichever may have been intended. When recourse is had to grass seed they should be purchased from a reliable source, even though the price be higher than that usually paid; spurious stocks being worse than useless, where a piece of fine grass is of first importance. The best season for sowing is in April, as the weather then experienced is usually more favorable than any other for the quick germination of the seed. It will be necessary to tread and work the ground all over, allowing the surface to be the full height required for the Lawn. The seed should be sown thinly, on a calm day, and lightly covered by means of a wooden rake; and, when the grass is well up, a heavy roller may be drawn over it before mowing. From three to four bushels to an acre is about the quantity of grass seed required for a Lawn. But so much depends on the quality of the mixture that it is uncertain whether this quantity will be sufficient. There are a few things necessary to bear in mind about a Lawn: Never buy so-called Lawn Grass Seed mixtures, composed of cheap, coarse growing grasses, which are not lasting; that no Lawn can be maintained long in good order without frequent rollings; apply water freely in dry weather, for mere sprinklings are best left alone.

Special Mixture for Golf Links. Specially prepared to withstand the wear and tear and retain its green appearance.

Mixture for Putting Greens. Made of the most desirable dwarf hardy grasses which are permanent.

Harmon's Mixture for Shady Places. Particularly adapted for sowing under trees and other shady places where other grasses fail to grow.

BOWKER'S LAWN DRESSING

This highly concentrated fertilizer, prepared under advice of leading chemists, contains only the most essential ingredients for fertilization and produces a full and perfect development of the lawn to which it is applied.

For this purpose it is unrivaled, as it can be easily applied. It is uniform in quality, concentrated in character and of a most complete nature, containing ammonia, phosphate and potash in the mildest proportion, thoroughly and carefully blended so as to avoid any danger.

It is particularly adapted for lawns, as it is especially rich in organic matter. It retains its stimulating properties for an unusually long period and makes good any deficiency in the soil by supplying to the grass its requisite food. H. T. Harmon & Co. confidently recommend it as a safe and reliable fertilizer for the lawn, and they feel assured that when its value becomes known, it will, on account of its excellent qualities, become the most popular fertilizer for lawns.

QUANTITY TO USE AND PRICES

10 lb. bag for 1,000 square feet of Lawn or 500 square feet of garden	\$0 50
25 lb. bag for 2,500 square feet of Lawn or 1,250 square feet of garden	1 00
50 lb. bag for 1,000 square feet of Lawn or 2,500 feet of garden	1 75
100 lb. bag for 1/4 acre of Lawn or 1/2 acre of garden	3 00

Farm Seeds

BARLEY, Two-Rowed and Six-Rowed. Sow two and one-half bushels to an acre.

BUCKWHEAT, Japanese. Early and very productive. Kernels very much larger than those of any other variety. One bushel of seed required to sow an acre.

Silver Hull.

MILLETS, Hungarian (Grass). Medium early; grows 3 to 5 feet. Abundant foliage and slender head; withstands drought and yields well on light soil.

Colden. Grows 3 to 4 feet high; spikes very numerous. Sow one bushel of seed to the acre.

OATS, White Seed. Good, plump, clean seed. Three bushels of seed to an acre.

RYE, Spring. This is valuable as a catch crop.
Winter. One and one-half bushels to the acre.

WHEAT, Spring and Winter.

Blue Stem. About two bushels to an acre.

India. Very quick-growing and productive. Good substitute for buckwheat.

VETCHES, or TARES. Excellent food for cattle and hogs. A very good substitute for corn and peas. Sow broadcast the same as wheat. For green fodder they are often sown with oats, and are much relished by stock. Three bushels of seed to an acre. Bus. \$3.50.

DWARF ESSEX RAPE (True, Imported). Dwarf Essex Rape is easily grown and perfectly hardy, and is remarkable for its fattening qualities. The plant is a rank grower. Any corn soil will grow good Rape. When sown in June, the Rape will have to be fed during August, though if the first crop is cut about four inches from the ground there would be a useful second growth. For the breeding flock a piece should be sown about the first week in July, with some even later. It does well sown with oats. After the oats are cut the Rape grows rapidly. Rape is especially adapted for a catch crop, succeeding well when, for any cause, other crops have failed, as it, like the turnip, makes its growth late in the season. It can be sown on stubble and will furnish excellent pasturage when needed in the fall. When sown broadcast, use five pounds to the acre. $\frac{1}{4}$ lb. 10 cts., $\frac{1}{2}$ lb. 15 cts., lb. 25 cts.

WILD RICE. For sowing around duck ponds. For wild fowl. Lb. 25 cts.

SOJA BEANS, or COFFEE BERRY. This valuable pasture plant is one of the most nutritious of all vegetable products. It will produce a crop of from 20 to 30 bushels to the acre and is very easily grown. For pasturing or feeding as green fodder it is very valuable, and is almost equal to clover for fertilizing. Qt. 25 cts., pk. \$1.25.

COW PEAS. Splendid fodder plant, extensively used for turning under. Poor sandy land may be greatly improved by turning under a crop of Cow Peas. Pk. 60 cts., bus. \$2.

Recleaned Grass and Clover Seeds

Prices Subject to Market Fluctuations without Notice. Write for Market Prices

CLOVER SEEDS

Alfalfa, or Lucerne (*Medicago sativa*). The great value of Alfalfa is its enormous yield of sweet and nutritious forage, which is much relished by all kinds of stock, either when green or cured into hay. It yields enormous crops, and when once established can be cut from three to four times a year, even in the driest summers. The reasons for this are that Alfalfa develops very long roots, often reaching 12 feet below the surface, which are thus able to get moisture which other small-rooted plants never reach. It is perfectly hardy and will stand many years. Its luxuriant foliage, by shade, increases the fertility of the soil, and smothering noxious weeds. Best sown in spring on mellow, well-drained or rolling land where water readily passes away. Sow 10 pounds to the acre.



Crimson Clover.

Alsike (*Trifolium hybridum*). This is remarkable for its hardiness. It is also the earliest large Clover, productive, sweet, extremely valuable both for pasturage or soiling. It adapts itself to almost any kind of land, and is capable of resisting the extremes of wet and drought alike. It makes a finer and better hay than Red Clover. The flowers are a light pink and afford fine pasturage for bees. Cloversick lands will sometimes produce fine crops of Alsike, which lands after three years in Alsike, and an intermediate grain-crop, will again produce Red Clover. Sow 12 pounds to the acre.

Crimson (*Trifolium incarnatum*). This Clover is very popular with the farmers of the south and west, and is recognized as a necessary and valuable addition to economical farming. May be sown any time from May to October. Sown early, the first growth is available for pasture in the fall, and still makes a good crop of hay the following summer, or may be turned under for corn or other crops, and for that purpose is said to be more valuable than the ordinary Red Clover. Rooting very deep, it supplies nitrogen and potash to the soil. Horses and cattle are fond of the hay, which should be cut when in full bloom. Sow 10 pounds of seed to the acre.

Red, Mammoth, or Pea Vine (*Trifolium pratense*). Grows to a height of 5 or 6 feet. The stalks are very coarse; valuable for plowing under. Sow 10 pounds to the acre.

Red, or June (*Trifolium pratense*). This is the most widely cultivated of the pasture plants, loosening the soil and admitting the air, and drawing up and storing away near the surface the valuable elements scattered in the earth beneath. It is regarded as one of the best vegetable fertilizers, as well as being the cattle food of the highest merit. It does best on stiff loam. Sow 15 pounds to the acre. Biennial.

White (*Trifolium repens*). Valuable for permanent pastures, also lawn mixtures. Sow 9 pounds to the acre.

GRASS SEEDS

Crested Dog's Tail (*Cynosurus cristatus*). A fine-growing evergreen Grass, particularly adapted for hard, dry soils and hills pastured by sheep. It is very hardy and is little affected by extremes of weather. Sow 2 to 3 bushels per acre. 20 pounds to the bushel.

English Rye (*Lolium perenne*). One of the best and most nutritious Grasses for permanent pastures. It endures close cropping and recovers quickly after cutting. Perennial. Sow 2 bushels to the acre. 24 pounds to the bushel.

Fowl Meadow (*Poa serotina*). A valuable Grass for sowing on low, wet lands that are occasionally overflowed. It is a perennial. Sow 3 bushels to the acre. 12 pounds to the bushel.

Fescue, Hard (*Festuca duriuscula*). A very useful Grass, and should be included in all sheep pastures, or in permanent pastures on gravelly soil. Does well in damp ground or in a salt atmosphere. Retains its green color during drought. Sow from 2 to 3 bushels to the acre. 12 pounds to the bushel.

Fescue, Meadow (*Festuca pratensis*). One of the best of our natural Grasses. It is greatly relished by all kinds of stock; it is very fattening and makes excellent hay. It is very hardy and succeeds in almost any soil, but attains its greatest perfection in moist, rich land. It should form a prominent part in all permanent pasture and meadow mixtures. Height from 2 to 3 feet. Flowers June and July. Sow 2 bushels to the acre. 22 pounds to the bushel.

Fescue, Tall (*Festuca elatior*). A tall-growing Grass, particularly adapted for strong clay and wet soils. This variety should form a part of all mixtures for marshes and wet lands. Makes an excellent hay. Sow 2 bushels to the acre. 14 pounds to the bushel.

Fescue, Sheep's (*Festuca ovina*). This Grass should form a large part of all mixtures intended for sheep grazing on high upland or dry pastures. In growth it is short and dense; the leaves are narrow and hair-like. Very nutritious, deep-rooted; grows well on dry soils or on rocky hedges. 12 pounds to the bushel.

Kentucky Blue, June, or Smooth-Stalked Meadow (*Poa pratensis*). This is a pasture Grass of great merit, the earliest to start in the spring and lasts well into the winter. Though it makes good quality hay, it is not to be recommended for that purpose, being a light cropper. It requires a longer time to become established than other Grasses. Extra fancy cleaned seed free from weeds. Sow 3 bushels to the acre.



Tall Meadow Oat Grass.

Orchard (*Dactylis glomerata*). One of the most valuable of all the cultivated Grasses, blooming with Red Clover and making with it an admirable hay. As a pasture Grass it is more productive than any other and does best under close feeding. It recovers rapidly. It stands drought better than any other Grass, keeping green and growing when others are dried up. In summer it will grow more feed in a day than Blue Grass will in a week. It is disposed to grow in tussocks; a good preparation of the land and uniform, liberal seeding is a good remedy for this. All kinds of stock like it, and it yields an enormous quantity of very superior hay. It succeeds well in any soil, doing especially well in moist places. Should be sown in all permanent pastures and shady places. Sow 3 bushels to the acre.

Red Top (*Agrostis vulgaris*). Fancy Extra Recleaned Seed. A well-known perennial and valuable pasture Grass. It also makes excellent hay. Thrives well on almost any soil, but does best on moist land. When pastured, Red Top should be fed close, as when grown to seed the cattle do not relish it. Sow 15 pounds to the acre.

Red Top, Chaff Seed. Sow 3 bushels to the acre.

Rhode Island Bent (*Agrostis canina*). A most valuable permanent Grass, extensively used for lawns and pastures. Forms a very fine turf. Especially adapted for salt atmospheres. 14 pounds to the bushel.

Sweet Vernal (*Anthraxanthum odoratum*). Valuable on account of the fragrance it imparts to the hay when drying.

Tall Meadow Oat (*Avena elatior*). A very early quick-growing sort; roots deeply; leaf broad. Produces a large quantity of early and late growth, which allows it to be cut frequently. Should be cut for hay when coming into flower. Sow 4 bushels per acre.

Timothy, or Herd's Grass (*Phleum pratense*). This valuable Grass thrives best on moist, loamy soil. As a Grass to cut for hay this variety is unsurpassed. If allowed to ripen its seed it becomes very coarse. When cut in the bloom it is very bright and nutritious. Sow ½ bushel to the acre.

Wood Meadow (*Poa nemoralis*). A variety growing naturally in shady places and moist, rich soils. Forms a close sod, and should be sown in shady places in lawns. Sow 2½ bushels to the acre.

WEIGHT OF VARIOUS ARTICLES

	Lbs. per bus.		Lbs. per bus.
Apples	48	Peas	60
Barley	48	Rape	50
Beans	60	Rye	56
Buckwheat	48	Red Top Seed, Chaff Seed . .	10
Blue Grass, Kentucky . .	14	Rep Top Fancy, Clean Seed .	40
" English	24	Sweet Potatoes	56
Bran	20	Timothy Seed	45
Canary Seed	60	Turnips	58
Castor Beans	46	Wheat	60
Clover Seed	60		Lbs.
Corn, Shelled	56	Flour, per bbl., net	196
" on Ear	70	Salt, " " "	280
Corn Meal	50	Lime, " " "	220
Cranberries	40	Hay, well settled, per cubic	
Flax Seed	36	foot	4½
Hemp Seed	40	Wheat, in bin, per cubic ft. .	45
Hungarian Grass Seed . .	48	Oats, " " "	25½
Irish Potatoes, heaping meas-		Potatoes, " " "	60
ure	60	Sand, Dry, per cubic ft. . . .	95
Millet	50	Clay, Compact, per cubic ft. .	135
Oats	32	Seasoned Beech Wood, per	
Osage Orange	33	cord	5,616
Orchard Grass	14	Seasoned Hickory, per	
Onions	52	cord	6,960

VEGETABLE PLANTS AND ROOTS

ASPARAGUS—		Doz.	100
Conover's Colossal			\$1 00
Palmetto			1 25
CABBAGE PLANTS—			
Early Jersey Wakefield. Ready April 15	\$0 15	1 00	
Early Summer. Ready April 15		15	1 00
Stone Mason			30
Fottler's Brunswick. Ready April 15	15	1 00	
Improved American Savoy			30
CAULIFLOWER PLANTS—			
Henderson's Early Snowball	20	1 00	
Early Dwarf Erfurt	20	1 00	

CELERY PLANTS—		Doz.	100
Paris Golden Self-Blanching			\$0 75
White Plume and other varieties			75
HORSE-RADISH SETS		\$0 25	60
PEPPER PLANTS—			
Large Bell, or Bull Nose		15	1 00
Seed Mountain		15	1 00
RHUBARB ROOTS		Each, 15 cts.	1 50
TOMATO PLANTS—			
Acme, Beauty, Canada Victor, Table Queen, Favorite, Fordhook, First, Red Cross, New Stone, Dwarf Champion and other varieties. In boxes, 1 doz. in each, 30 cts.			

Summer and Autumn-Flowering Bulbs and Roots

BEGONIA, TUBEROUS-ROOTED

These beautiful flowers are very desirable for bedding or pots. Their brilliantly colored flowers make a magnificent display all through the summer. Are very easily cultivated.

Single-Flowering Varieties. Dark Red, Rose, Pink, Orange and White. Separate colors each 15 cts., doz. \$1.

Double-Flowering Varieties. Dark Red, Rose, Yellow and White. Separate colors each 15 cts., doz. \$1.50.

CANNAS

Large-Flowering Dwarf French. Named varieties. Each 15c., doz. \$1.50.

Tall Varieties, Mixed. Useful for tropical beds or for growing in masses. Each 15 cts., doz. \$1.50. If wanted by mail, add 5c. each.

CALADIUM esculentum (Elephant's Ear). A magnificent subterranean plant, with immense light green leaves, veined with dark green. Splendid for the center of beds or for single specimens in lawns. The best results are obtained when the plants are placed where they will readily get plenty of water. In two sizes, 10 cts. and 15 cts. each, \$1 and \$1.50 per doz.

CINNAMON VINE (Chinese Yam). Hardly climber, with beautiful glossy and fragrant flowers. The roots are edible. Each 5 cts., doz. 50 cts.

DAHLIAS

The soil for cultivation of Dahlias should be strong and rich and well worked with spade or plow. The tubers should be planted, in this latitude, the last of May, at a depth of 3 or 4 inches. As the season advances the ground about the plant should be mulched, unless it is naturally moist and if water can be supplied to the plants two or three times a week the result will pay for the labor. The roots should be taken up soon after the frost has killed the foliage. A day should be chosen for doing this when the soil is moderately dry, so that it will fall off without much shaking. As soon as the tops are cut off the clump of roots should be turned upside down and kept so for some time to let the acrid juice drain off, which otherwise would run down and kill the dormant buds at the base of the stems. During the winter the roots will be safe in any place which will keep potatoes.

Show and Fancy. This section is still the most admired of all; their form is frequently absolute perfection, each petal most exquisitely shaped, the perfect match of every other one in the same row, while the colors are either vivid, pure and strong or else delicately shaded and tinged. We have a collection of over 60 varieties, in all shades, to select from. Each 15 cts., doz. \$1.50.

Pompon. The small size of flowers makes them charming as cut flowers, while their form and coloration are as fine as those of the show section. We have an assortment of over 30 distinct named varieties. Each 15 cts., doz. \$1.50.

Cactus and Decorative. They are exceedingly beautiful and as flowers for personal adornment or for vases they are not easily excelled. Some of them have long pointed and twisted petals. We have some three dozen named varieties of this beautiful section to offer. Each 15 cts., doz. \$1.50.

GLOXINIA. Showy, free-flowering summer plants, very desirable for pot culture. They succeed best in a porous, well-enriched soil and a warm, moist atmosphere. Strong Flowering Bulbs. Each 10 cts., doz. \$1.

The World's Best

NEW HYBRID GLADIOLUS

Originated and Selected by H. H. Groff

We are pleased to announce that we have made arrangements with the originator for the sale of the above celebrated Gladiolus. These bulbs comprise the most valuable varieties in the world.

The mixtures are prepared by the originator. They are selected with the view of giving the critical grower unequalled value and satisfaction.

A search, be it ever so painstaking and complete, of the floral kingdom, will discover no flower of such easy culture, embracing the great range of color with endless combinations and variety to equal the Gladiolus.

Although called the people's flower, it today is practically unknown to both the amateur and average grower, and the newer hybrids have greater beauty and more exquisite coloring than any other garden ornament.

Cut the spike when the first flower opens, place in water and develop in the house. This treatment is also beneficial to the bulb. Plant in full exposure to the sun in any well-enriched garden soil, avoiding contact with manure, which should never be fresh. When soil is stiff clay, fill the drill with sandy loam. Water when necessary during the early stages of growth and again when buds show color.

The bulbs may be planted 2, 3 and 4 inches deep according to size. Before the ground freezes dig up the bulbs, cut off the stalk close and store in a cool place.

A SPECIALTY—GROFF'S WORLD'S BEST HYBRID SEEDLING GLADIOLUS

This new strain of seedlings is all the title claims for them. The best quality and value attainable in the world, embracing thousands of varieties of the largest size and of the greatest beauty, diversity and substance, producing many equal to the latest and most expensive named varieties. Doz. 75 cts., 100 \$4.50; 50 only at 100 rates.

Lemoine's Mixed (Hybrid, or Spotted). Doz. 40 cts., 100 \$3.

Fine Mixed. Doz. 25 cts., 100 \$1.75.

Selected New Dark Hybrids. All shades of combinations of red, scarlet and crimson, of highest quality. Doz. \$1.50.

Selected New White, Light and Yellow Hybrids. No equal value offered elsewhere or otherwise obtainable. Doz. \$2.50.

Selected New Blue Hybrids. Finest ever offered. Doz. \$2.50.

Mixed Named Nancianus. The large orchid-flowering Gladiolus. Doz. \$1.25.

Snow-White. This variety is almost a paper white, with the exception of a slight tinge of rose on the lower petals. This is a grand variety. Each 15 cts., doz. \$1.50.



Gladiolus.

IRIS Kæmpferi (Japanese Iris). This Iris, which in size and color is unsurpassed, has flowers of large size and of indescribable hues and colors, the prevailing colors being white, crimson, rose, lilac, with lavender, violet and blue, each flower representing several shades, while a golden yellow blotch surrounded by a halo of blue or violet at the base of the petals, intensifies the wealth of coloring. The Japanese Iris is perfectly hardy, attaining its greatest perfection if grown in a rich, deep and moist soil, or if plentifully supplied with water. Each 15c., doz. \$1.50. Add 5 cts. each if wanted by mail.



Lillium auratum.

LILIES

Their graceful and stately habit of growth, large and variously colored flowers, many of which are highly fragrant, render them very desirable subjects for out-of-door cultivation. Any of the strong-growing sorts are well adapted for planting among shrubs or in similar situations. Nearly all the varieties are hardy, but it is advisable to protect them in winter with a covering of manure.

Auratum (Gold-Rayed Lily of Japan). One of the most beautiful varieties in cultivation. Each 15 cts. to 25 cts., doz. \$1.50 to \$2.50. If wanted by mail, add 5 cts. each for postage.

Lancifolium speciosum album. Flowers pure white, very fragrant; hardy. Each 15 cts., doz. \$1.50.

Lancifolium rubrum. White, heavily spotted with red. Each 15 cts., doz. \$1.50.

MADEIRA VINE. A popular and favorite tuberous-rooted climbing plant, with dense and beautiful shining foliage and of very rapid growth. Succeeds best in a warm, sheltered, sunny situation. Very useful for training around the windows in the house. Tubers each 5 cts., doz. 50 cts.

TUBEROSES

A most delightfully fragrant flower. Invaluable wherever cut-flowers are in demand. They should be potted in rich loam and started in heat and should not be set out in the garden until June.

Excelsior Double Pearl. Extra large bulbs. Each 5 cts., doz. 30 cts., 100 \$2.

FAIRY LILY, Zephyranthes. Beautiful bulbous plants of the Amaryllis family, growing about 12 inches high, bearing beautiful pink flowers; splendid for planting either in pots or in beds out of doors. Each 5 cts., doz. 50 cts.

Plant Department, Bedding Plants

Ageratum. Blue. Each 10 cts., doz. \$1.
Alyssum, Sweet. Pot-grown. Each 10 cts., doz. \$1.

Asters. Assorted colors. Doz. 15 cts.

Abutilon (Chinese Bell-Flower). With variegated foliage. Each 15 cts., doz. \$1.50.

Abutilon, Trailing. Splendid for vases and hanging pots.

Browallia speciosa major. New. Very free-flowering plant, with handsome clear blue flowers growing about 1 foot high. Excellent plant for house or garden. Each 10 cts., doz. \$1.

Calendulas. In pots, each 10 cts.

Cannas, French Dwarf. In pots, each 15c.

Cannas, Tall. In pots, each 15 cts.

Cobaea scandens. In pots, each 15 cts.

Coleus, Fine Sorts. Best assortment in the state. Doz. \$1.

Feverfew, Golden. Doz. 15 cts.

Feverfew, Double White. In pots, each 25 cts.

Fuchsias. Each 15 cts. to 50 cts.

Geraniums. Double sorts. Doz. \$1 to \$2.50.

Geraniums. Single sorts. Doz. \$1 to \$2.50.

Hellebores. In pots, each 10 cts. and 15 cts.

Hollyhocks. In separate colors, each 20c., doz. \$2.25.

Lobelia. Each 10 cts., doz. \$1.

Margolds. In pots, each 10 cts.

Marguerites, Double Golden. Each 15c., doz. \$1.50.

Mignonette. Pot 10 cts.

Nasturtiums, Dwarf. Doz. 15 cts.

Pansies. Splendid varieties. Basket 35c.

Petunias, Double. In pots, each 15 cts.

Petunias, Single. In pots, each 10 cts.; seedlings, doz. 15 cts.

Phlox Drummondii. 15 cts.

Ricinus (Castor Oil Plant). In pots, each 15 cts., doz. \$1.50.

Salvia, Scarlet. In pots, each 15c., doz. \$1.50.

Senecio scandens (German Ivy). Each 15 cts., doz. \$1.50.

Stocks, Double. In pots, flowering, each 10 cts., doz. \$1; seedlings, doz. 15 cts.

Verbena. Doz. 30 cts.

Vincas. In pots, each 15 cts. to 50 cts.

Zinnias. Doz. 15 cts.

Carnation Plants. In separate colors, pot-grown plants, each 15 cts., doz. \$1.50.

Hardy Herbaceous Perennial Plants

This attractive class of plants is worthy of great attention on account of their great beauty, permanence and easy culture. They are so hardy that they will succeed in almost any well-drained garden border, and if suitable varieties are selected they will prove a continual source of interest and enjoyment.

ANEMONE Japonica alba. Showy white-flowered, autumn-flowering plants. Excellent for cut-flowers. 20 cts.

Japonica, Apple Blossom. New. Flowers delicate pink and semi-double. Resembles a cactus dahlia. 50 cts.

Japonica rosea. Deep rose color.

AQUILEGIA (Columbine). Finest mixed. Each 15c., doz. \$1.50.

ASTILBE, or SPIREA Japonica. Its flowers and foliage make it one of the best plants for all decorative purposes. Should be abundantly supplied with water. Each 15 cts., doz. \$1.50.

COREOPSIS, or CALLIOPSIS grandiflora. The largest and finest perennial variety. Flowers deep golden yellow. Flowers from July to October. 20 cts.

DELPHINIUM (Perennial Larkspur). These make splendid specimens for herbaceous or shrubby borders. The plants are continuous in flowering and excellent for cutting. Height 3 feet. Selected varieties. Each 20 cts., doz. \$2.

HELIANTHUS multiflorus fl. pl. (Double Perennial Sunflower). Loaded with double yellow dahlia-like flowers splendid for cutting. Strong plants. 20 cts.

Maximiliana. A very fine variety, with bright yellow flowers with a dark center. Makes a very bushy plant. 25 cts.



Anemone Japonica.

HEMEROCALLIS flava (Yellow Day Lily). Beautiful yellow fragrant flowers, borne in clusters on tall stems. If in a shady border they will remain in bloom a long time. 25 cts.

HOLLYHOCKS, Double. Mixed colors. 25 cts.

LOBELIA cardinalis (Cardinal Flower). One of the most brilliant flowers in cultivation. Is one of the best plants for the shady side of a house or moist situations. 3 feet high. 20c.

LYCHNIS Chalcedonica. Valuable because there are so few flowers of its color among hardy herbaceous plants. Flowers scarlet. 2 feet high. 20 cts.

MYOSOTIS Victoria (Forget-Me-Not). A compact-growing variety, literally covered with sky-blue flowers. 8 inches high. 15 cts.

PAEONIES. On account of their easy culture, the brilliancy and frequency of their flowers, which make a fine display during the early summer, makes these plants exceedingly popular.

Hardy Herbaceous Varieties in separate colors. Each 35 cts., doz. \$3.50.

PAPEVER orientale (Oriental Poppy). The showiest of hardy perennials. Has large thistle-like leaves about 1 foot long clothed with white bristly hairs. Its deep scarlet flowers, more than 6 inches in diameter, make a most gorgeous display.

PHLOX, Perennial. No garden, however small, is complete without some of these old favorites in separate colors. 20 cts.

PLATYCODON or WAHLBERGIA (Japanese Bell Flower). Most desirable plants for the herbaceous border, bearing large bell-shaped flowers. 3 feet. 20 cts.

RUDEBECKIA Golden Glow. This is the finest plant yet introduced for the herbaceous border. It grows about 7 feet high, with an abundance of bright yellow double flowers resembling the chrysanthemum. 20 cts.

SCABIOSA Caucasica. Large light blue flowers; grows 18 inches high. 20 cts.

Caucasica alba. New. Large pure white flowers; very useful for cutting.

TRITOMA Uvaria grandiflora (Red Hot Poker). Admirably adapted for planting in single clumps on the lawn or among shrubbery, where its tall handsome spikes of orange-red flowers make a very effective display. Strong plants, 50 cts.

TROLLIUS Japonica fl. pl. (Double Buttercup, Globe Flower). Beautiful deep yellow flowers, like immense buttercups. Their bright flowers appear in early spring. They deserve more general planting. 25 cts.

Hardy Ornamental Trees, Shrubs and Climbing Plants



Japan Maple Leaves.

American Linden and some other trees. The stock we offer is very vigorous and well rooted. From 2 to 10 feet high. 25 cts. to \$1.25.

FRAXINUS pendula (Weeping Ash). Long, drooping branches. \$1.50 to \$2.50.

QUERCUS palustris (Pin Oak). This is one of the most desirable trees for all purposes, and will thrive in situations where many other trees will not exist. It is adapted for higher rolling land where the soil is poor, or the soft, moist soil of meadows and lowlands. 3 to 11 feet. From \$1 to \$5.

DECIDUOUS SHRUBS

AMORPHA fruticosa (Indigo Shrub). Does well on dry banks or planted in masses. The purple flowers are striking in color, yet not so broadly conspicuous as to make the plant unsuitable for cemetery planting. 75 cts.

BERBERIS Thunbergii (Japanese Berberry). A fine introduction from Japan, and the handsomest of all the Berberis. Slightly drooping, symmetrical bushes, with bright green foliage, which changes in the fall to crimson, orange and bronze. The fruit is of a bright red, is borne in very large quantities, lasting on the plants all through the winter. 30 cts. to \$1.

FORSYTHIA Fortunei (Golden Bell). Very early spring-flowering shrubs, covered before the foliage comes with golden yellow flowers. 50 cts.

HYDRANGEA paniculata grandiflora. The finest of all the hardy Hydrangeas, forming large bushes, producing flowers in dense pyramidal panicles in the greatest profusion. These plants are strong and well rooted from 1½ to 3 feet. From 15c. to \$1.

HONEYSUCKLE, Bush (*Lonicera fragrantissima*). Beautiful sweet-scented creamy white flowers. 15 cts.

PHILADELPHUS coronarius (*Mock Orange*). Strong-growing, free-flowering shrub; foliage fine, rich and green. Flowers pure white and very fragrant. 25 cts.

SPIRÆA Van Houttei. A splendid garden shrub, very hardy and one of the most beautiful of all. An immense bloomer; pure snow-white flowers are borne in clusters all over the plant. Makes a splendid hedge plant. Strong plants, 20 cts. to 50 cts.

SYRINGA persica (Lilac). This splendid plant is too well known to need description. They grow very freely and flower profusely, thriving in almost any soil. Strong plants, 25 cts.

SNOWBALL, Japan (*Viburnum plicatum*). A very beautiful hardy shrub of dwarf-spreading habit, with dark green foliage; it is covered for a long time with a mass of balls of white flowers. Much larger than the old variety. 25 cts. to 50 cts.

WEIGELA rosea. A beautiful hardy shrub 6 feet high, producing an abundance of rose-colored flowers. Very easily grown. Strong transplanted plants, very stout and bushy. 3 years old. 50 cts.

ACER polymorphum atropurpureum (Blood-Leaved Japanese Maple). One of the finest dwarf trees in cultivation. Its splendid red, purple and pink foliage makes it very desirable as a specimen for lawns, etc. It is perfectly hardy. These plants are native grown and on their own roots, which makes them more desirable than the imported grafted plants. \$1.50 to \$2.50.

Saccharinum (Sugar Maple). There is no better tree for street or avenue planting. It is a rapid grower and the branches are not brittle and storms will not break them. Plants from 2 to 14 feet. 50 cts. to \$3.

BEECH, American White. 50 cts. to \$1.
Rivers Purple. \$1 to \$3.

BIRCH, Cut-Leaved Weeping. \$1.50.

European White. Two to 9 feet. 50 cts. to \$1.50.

CHERRY, Double-Flowered Pink (*Cerasus Sieboldi plena*). Of all the varieties of double-flowering Cherries, none are equal in beauty to this variety. The flowers are a light pink, of large size and are extremely abundant. The foliage is of a darker green, and holds well during the heat of the summer. 2 to 7 feet high. 75 cts. to \$1.50.

FRAXINUS Americana (American White Ash). The American White Ash is a most graceful tree of rapid growth and good habit. For park and cemetery planting it is particularly useful, as it is not so stiff and formal in growth as the Norway Maple,



An Arch of Honeysuckles.

VINES and CLIMBERS

AMPELOPSIS Veitchii (Japanese, or Boston Ivy). A most attractive clinging vine. The beautiful dark green leaves assume in the fall the most gorgeous shades of crimson and scarlet. Strong, transplanted plants. From 25 cts. to 50 cts.

ARISTOLOCHIA Sipho (Dutchman's Pipe). Very hardy strong-growing vine, with large, peculiar shaped leaves resembling the Elephant's Ear. Flowers yellowish brown. Very strong plants, 50 cts.

CLEMATIS Jackmanni. A splendid variety with large purple flowers; very showy and deservedly popular. Extra strong plants, 75 cts.

Paniculata (Japanese Virgin's Bower). Exceedingly handsome, perfectly hardy in any situation, requiring no protection in the most severe winter. A very rapid grower, quickly covering walls, trellises, or old tree stumps. The leaves are small, dark green and glossy. The flowers are pure white and deliciously fragrant, and are produced in great profusion in the early fall. Extra large plants, 50 cts.

HONEYSUCKLE, Sweet-Scented Monthly (*Lonicera belgica*). This is the most satisfactory of Honeysuckles, producing continuously large trusses of very fine fragrant red and yellow flowers. 20 cts.

BIGNONIA radicans (Trumpet Vine). A very fine hardy climber, bearing clusters of large, trumpet-shaped, crimson orange-shaped flowers. Will thrive in almost any soil or situation. 30c.

WISTARIA magnifica (Grape Flower Vine). Very best ornamental hardy-flowering climbers we possess. Their lovely panicles of dark blue flowers are produced in the most wonderful profusion under almost any circumstances. 25 cts.

HARDY HYBRID PERPETUAL ROSES

We beg to call attention to our Roses, which are of the finest English stock. The wood is firm and well ripened, and the roots are fibrous, which is seldom the case with Dutch, or Native Roses. The Roses we offer, we wish to say, are very much superior to the cheap Roses offered the public at lower prices, and which so frequently cause a disappointment. To be successful with Roses a deep rich loam of a stiff, rather than a light nature, should be provided.

Shallow sandy or gravelly soils are unsuited for Roses, as also are improperly drained soils. In gardens where Roses are to be planted in unfavorable situations it is best to dig out the natural soil in the first place, and replace it with a properly prepared compost. A depth of 1½ feet should be provided for such strong-growing kinds as most of the Hybrid Perpetuals, and a similar depth should be provided for all Roses. The soil can scarcely be made too rich; plenty of manure and bone meal may be added when the ground is being prepared for planting, and an annual top-dressing in addition will be found beneficial. The soil should be made thoroughly firm about the plant after planting and liberally watered.

Abel Carriere. Rich velvety maroon; large, round, perfectly shaped. Imbricated.

Alfred Colomb. Bright red, full, very showy.

Anne de Diesbach. Vivid rose, very large.

Baroness Rothschild. Pale delicate rose, suffused with white, large and globular; a grand Rose; one of the best.

Beauty of Waltham. Bright rose-crimson, medium size, very fine form.

Captain Christy. Delicate flesh color, deeper in the center; very effective.

Charles Lefebvre. Fine bright dazzling crimson-scarlet color and form very good.

Comtesse d'Oxford. Brilliant carmine, very large and full; of fine form and vigorous growth; fine foliage.

Duchess of Albany. A sport of La France, but deeper in color, more expanded in form and larger in size. The flowers are deep pink, very large, full and highly perfumed.

Duchesse de Valombrosa. Light rose-pink changing to tinted white; large globular flower with outer imbricated petals.

Duke of Edinburgh. Rich velvety vermilion; very hardy and vigorous.

Dupuy Jamain. Bright cherry red; of good form and vigorous growth.

Earl of Dufferin. Rich brilliant velvety crimson, shaded with maroon; an early, continuous and late bloomer; flowers of large size and of perfect form.

Fisher Holmes. Bright scarlet, imbricated; one of the best.

General Jacqueminot. Bright scarlet-crimson; very fine.

Gloire de Margottin. Bright red, long pointed buds; a good garden Rose.

John Hopper. Rose-crimson, back of petals lilac, large and full.



Captain Christy Rose.



Rose, Ulrich Brunner.

ROSES, continued

Jules Margottin. Vivid rose-carmine, large, very showy; vigorous habit.

La France. Beautiful rose-lilac, very distinct, large and full; free blooming; one of the best.

Louis Van Houtte. Fiery deep red, petals bordered with crimson, very large and full; vigorous habit.

Madame Gabriel Luizet. Clear bright satiny rose, round, fine-petaled flowers.

Madame Hippolyte Jamin. White tinted with rose, very large and full; growth vigorous.

Mad. Eugenie Verdier. Beautiful flesh-pink, suffused with silvery white, very large; strong grower.

Magna Charta. Bright pink, suffused with carmine, very large, full and of good form; free-flowering.

Margaret Dickson. Very large and shell-shaped, white with pale flesh center; growth very vigorous.

Mrs. John Laing. Soft pink; flowers fragrant, large and finely shaped; plant vigorous and profuse, continuing in bloom until late in the fall.

Paul Neyron. Deep rose; very large, of good form and habit.

Pierre Notting. Blackish red, with light violet tint, very fine; large and full.

Prince Camille de Rohan. Very dark crimson-maroon.

Ulrich Brunner. Bright cerise-red, large and full; one of the best.

Victor Verdier. Vivid rose-carmine, large, full and distinct; a well-known favorite.

White Baroness. A very fine pure white, large and full.

Strong plants from 30 cts. to 50 cts. each, \$3 to \$4 per doz.

HARDY CLIMBING ROSES

Crimson Rambler. The finest, showiest and hardest climbing Rose in cultivation. A rapid grower, bearing numerous clusters of bright crimson flowers. Good plants, each 30 cts.; strong plants, each 50 cts.

Yellow Rambler. Similar to the above, with the exception that the flowers are of a clear yellow. Should be protected during the winter. Each 30 cts. and 50 cts.

Fruit Trees and Small Fruits

The following fruit trees and small fruits can be supplied. Price on application.

Apples, Crab Apples, Cherries, Peaches, Pears, Plums, Quinces,
Blackberries, Gooseberries, Currants, Dewberries, Hardy Grapes, Raspberries.

STRAWBERRIES

The Strawberry may be grown to perfection on any ground that will produce a crop of potatoes, corn, peas or other vegetables. Ground that has been used for fruit or vegetables is the best for Strawberries. Almost any soil will answer, but it must be remembered that the land should be well enriched with some good stable manure or fertilizer. The ground should be thoroughly plowed and harrowed until it is in first-class condition. Strawberries should never be planted on newly plowed sod ground. Avoid exposing the roots of the plants to sun or wind.

Nick Ohmer (Perfect Flowers). New. The fruit is of the very largest size, a giant among Strawberries. It is never misshapen. It is a dark glossy red, firm and of excellent flavor. This new berry is highly spoken of by good authorities and we think it has a promising future. Doz. 30 cts., 100 \$1, 1,000 \$8.

McKinley (Perfect Flowers). New. It is highly recommended, and we would advise all our patrons to plant a few. Berries large, roundish inclining to conical, but sometimes flattened or cocks-combed. Color crimson, flesh firm, quality excellent. Doz. 30 cts., 100 \$1, 1,000 \$8.

Margaret (Perfect Flowers). New. This is certainly a high-class fruit and should have a place in every garden where fine color, appearance and first quality are required. The plant is large, healthy and a vigorous grower, having dark glossy foliage. It is very productive and the fruit is of extra large size and quality; it ripens all over a dark glossy red, and retains its color to the center. Doz. 30 cts., 100 \$1, 1,000 \$8.

Marshall (Perfect Flowers). This is probably the largest berry yet introduced. The plants are very rank growers. Very regular conical-shaped crimson berries; the flesh is solid; splendid shipper. Doz. 25 cts., 100 75 cts.

Brandywine (Perfect Flowers). A fine handsome berry, a little larger than the Marshall. It is heart-shaped. Flesh red and very solid for so large a berry. Very profitable; one of the best. Doz. 25 cts., 100 75 cts.

Wm. Belt (Perfect Flowers). A luxuriant grower and very productive. Medium in ripening. Large, conical-shaped fruit. The color is a brilliant glossy red. A valuable variety for home or market use. Doz. 30 cts., 100 80 cts.

Glen Mary (Perfect Flowers). Strong, robust grower, of excellent flavor for so large a berry. One of its characteristics is that the last fruit is as large as the first. Specially recommended for home use.

Parker Earle (Perfect Flowers). One of the most profuse bloomers extant. In order to mature this mass of fruit it must be fed and watered frequently. The fruit is very fine and gives excellent results under the right kind of treatment.

Candy (Perfect Flowers). This is a late variety, with large, firm, fine-flavored fruit, and always brings the highest market price. This is one of the most profitable varieties.

Bubach (Pistillate). A strong, healthy-growing variety. Fine, firm, rich-colored fruit, coming in with the second-early varieties. Bubach is planted largely with Sharpless; the size, color and shape are much alike. Doz. 30 cts., 100 75 cts.

Sharpless (Perfect Flowers). One of the leading varieties. The plant is exceedingly large and vigorous. It demands a well-enriched soil. One of the largest and best flavored berries we have. Second to none as a market berry. Doz. 30 cts., 100 75 cts.

Cumberland (Perfect Flowers). An old, reliable, early variety of fine flavor; good for home use. Doz. 25 cts., 100 60c.

Pot-grown plants, prices on application.



Brandywine.

Fertilizers and Plant Foods

Bowker's Ammoniated Plant Food

A dressing made expressly for plants grown in the house, garden or conservatory, made from the same chemicals that are used in making many kinds of medicine; clean, odorless and producing early and abundant blossoms of rich and brilliant color, and healthy, luxuriant plants free from vermin. In packages, 15 and 25 cts. If wanted by mail, add 5 cts. for small and 15 cts. for larger package.



Jadoo Liquid

Is the best, safest and cheapest Liquid Fertilizer made. Invaluable in pot culture.

10 gallons, jacketed can	per can, \$6 50
5 " " " " " " " " " " " " " " " "	3 50
2 " " " " " " " " " " " " " " " "	1 50
Pint bottle, 16 oz.	each, 25

Jadoo Fibre and Liquid are not mailable

Thompson's Jadoo Fibre

The new potting material. Admirably adapted for raising seedlings, striking cuttings and general conservatory work. Every plant thrives in Jadoo without earth. Invaluable to amateur gardeners; clean to handle. Simply perfect for indoor plants, window boxes, hanging baskets, table decorations, etc. It increases the size, causes more bloom and perfects the color of all flowers.

Bulk in bags of 125 lbs.

Ton, $\frac{1}{2}$ ton or $\frac{1}{4}$ ton	per lb., \$0 13
Single bag, or less than	
500 lbs.	per lb., 02
25 lbs. in boxes	per box, 1 10
10 " " " " " " " " " " " " " " " "	50
5 " " " " " " " " " " " " " " " "	30
4-lb. pkts. (tin boxes) . . . each,	25



TRADE-MARK. REGISTERED.
Protected by Letters Patent.

"FOR THE LAND'S SAKE," USE BOWKER'S FERTILIZERS

They Enrich the Earth

We offer a full line of Bowker's Fertilizers, and feel that in so doing we give you good value for your money and the best fertilizers for your crops. The Bowker Fertilizer Company has been in business since 1873 as an independent concern, and now has a yearly capacity of over 50,000 tons and a capital of \$1,000,000. Everything which the company puts out bears its name, and, what is quite as

important, it carries with it not only the guaranty of the company, but the personal interest and care of its founder, Mr. W. H. Bowker, a graduate of the Massachusetts Agricultural College, who has made plant food almost his life study.

Stockbridge and Bowker Special Fertilizers for Potatoes and Vegetables.

Stockbridge Potato Manure.

Stockbridge Corn and Grain Manure.

Stockbridge Grass Top-Dressing.

Stockbridge Seeding-Down Manure.

Bowker's Early Potato Manure.

Bowker's Potato and Vegetable Fertilizer.

Bowker's Potato Vegetable Phosphate.

Bowker's Market-Garden Fertilizer.

Bowker's Bone and Potash, Square Brand.

Bowker's Potash Bone.

Bowker's Hill and Drill Phosphate.

Bowker's Farm and Garden Phosphate.

Bowker's "Sure Crop" Phosphate.

Bowker's Potash or "Staple" Phosphate.

Bowker's Ground Bone, Bone and Wood-Ash Fertilizer, Animal Fertilizers, Wood Ashes, etc.

Pure Ground Bone. Purest article made. 100 lbs. \$1.50, ton \$34.
Dissolved Bone Black. Containing 16% to 18% soluble and available phosphoric acid.

Nitrate of Soda. 95% to 98% purity.

Sulphate of Potash. 50% to 55% sulphate of potash.

Muriate of Potash. 80% to 85%.

Sulphate of Ammonia. 24% to 25% ammonia.

Kalinit. 20% to 25% sulphate of potash.

Land Plaster.

Old-Fashioned Peruvian Guano

The Guano is pure, has not been "rectified" or "standardized" or treated in any way, but contains all the original properties of the true, old-fashioned Peruvian Guano. For indoor or outdoor use, for greenhouse, conservatory, market-gardening or general field culture, it can be safely and profitably used, because it is Nature's own restorer of plant food, and is a complete fertilizer. It is adapted to all kinds of crops, including vegetables, small fruits and orchards, and is considered the ideal fertilizer for tobacco in the large tobacco fields of Cuba, and Cuban tobacco is the standard of the world. It supplies the needed elements in natural forms, with no injurious properties whatever. 100 lbs. \$2.50, ton \$45.

Sheep Manure

This is a pure natural manure and the most nutritious food for plants. Its effect is immediate and lasting; it is clean to handle and the best of all manures for mixing with the soil for greenhouse plants. As a lawn top-dressing it is unequalled. For mixing with soil, take one part manure to six parts soil. For making a liquid, take one pound manure to five gallons water, which can be used with safety daily if necessary.

BOWKER'S LAWN DRESSING. See page 27.

Insecticides and Fungicides

Dalmatian, or Persian Insect Powder. One of the safest and best insecticides for all insects. When blown on with a powder-bellows or gun it penetrates hidden crevices, and is invaluable to the housekeeper for flies, cockroaches, etc. 1 lb. 40 cts.

Fire Tree Oil (Soluble). For destroying all insects that infest plants and animals, such as mealy bug, scale, red spider, greenfly, thrip, lice, fleas, etc. Quite harmless to the hands of the user. Directions with each package. $\frac{1}{2}$ pt. 50 cts., pt. 75 cts., qt. \$1.25.

Hellebore Powder, Lion Brand. Prepared from fresh root. One of the most effective insecticides for rose slugs, currant worms, greenfly and other insects. $\frac{1}{2}$ lb. pkg. 10 cts., $\frac{1}{4}$ lb. pkg. 15 cts. 1 lb. pkg. 25 cts.

Paris Green. The purest and highest grade obtainable. Impure and cheap Paris Green, as often sold, is the cause of much loss to the farmer. 1 lb. 25 cts.

Bordeaux Mixture, Lion Brand. A valuable and indispensable fungicide for grape-growers, insuring larger crops and finer grapes and preventing failure. Successful against black rot, mildew and rust. Being in liquid form, it is very convenient to handle. One gallon will make 50 gallons of spraying liquid by addition to 49 gallons of water. 1-qt. cans 40 cts., 1-gal. cans \$1.

Dry Bordeaux Mixture. Much time and labor may be saved by Dry Bordeaux Mixture; saves the laborious task of carrying water.

Dry Bordeaux Mixture and Paris Green Compound. It kills potato bugs and plant-eating pests, prevents blight and rust, keeps potato and tomato vines and other foliage in a green and vigorous condition; acts as a plant-food. 1-lb. pkts. 20 cts.



Bug Death. Said to be non-poisonous; a preparation that is an effectual substitute for Paris green. 1-lb. pkg. 15 cts., 3 lbs. 35 cts., 5 lbs. 50 cts., 12½ lbs. \$1.



Put March 15 and How to Kill.
Put in Canada Nine, A, 1896

Black Death. What is "Black Death?" It is an inexpensive powder as fine as flour and extremely diffusible, and completely covers with a fine dust all plants over which it is sprinkled. In addition to being powerful in its effects to kill all insect life, it also acts as a fertilizer, thereby very materially increasing the crops of potatoes, etc., to which it is applied. 5 lbs. 20 cts., 10 lbs. 35 cts., 15 lbs. 50 cts.



Black Death.

"Rose Leaf" (Extract of Tobacco). "Rose Leaf" is simply a perfectly pure, highly concentrated, aqueous extract of tobacco, always uniform in strength of nicotine poison, this feature being definitely determined by chemical analysis, and not by guess-work. Pt. can 30 cts., qt. can 50 cts., 1-gal. can \$1.50, 5-gal. can \$5.

Tobacco Dust. Very cheap and effectual remedy for greenfly on plants. Valuable as a fertilizer. 1 lb. 10 cts., 5 lb. pkg. 30 cts.

Tobacco Stems. For fumigating. Invaluable as a much for rose beds, lettuce beds, sweet peas, etc. They prevent the destructive work of the cut- and wire-worms and other insects. Bale of about 100 lbs., \$1; for smaller quantities, lb. 2 cts.

Tobacco Soap. Manufactured from the essential oil of tobacco for the destruction of insects, parasites and their eggs. Lb. 40 cts., ½ lb. 25 cts.

Nikotene Aphid Punk. This is a special preparation of nicotine for the extermination of green and black fly, thrip, etc., in green-houses and conservatories. It is also effective in killing caterpillars on shade and fruit trees. Contains none of the ammonia which causes injury to delicate plants when heavy tobacco smoke is used. Box of 12 rolls 60 cts.

Whale Oil Soap. Makes an excellent wash for trees and plants; destroys insects and their eggs. Lb. 15 cts., 2-lb. pkg. 25 cts., 5 lbs. 50 cts.

Hammond's Slug Shot. Destroys all insects injurious to



house and garden plants, shrubs, trees, vines, potatoes, melons, cabbage, currants and vegetables and fruits of all kinds. This preparation is absolutely safe to use, and will not injure the foliage. One of the cheapest and most infallible insecticides on the market. 1-lb. pkg. 10 cts., 5-lb. pkg. 25 cts.

Boxal. A combined insecticide and fungicide, superior to Paris green and Bordeaux mixture, and taking the place of both. 5-lb. can 50 cts., 10-lb. can \$1, 25-lb. can \$2.25.

Bodo. A valuable remedy for rust, rot, blight and fungous diseases in general. 5-lb. can 50 cts., 10-lb. can \$1, 25-lb. can \$2.

Disparene. The most powerful known remedy for all leaf-eating insects. 2-lb. can 50c., 5-lb. can \$1, 10-lb. can \$1.80, 25-lb. can \$4.25.

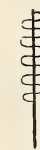
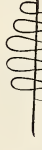
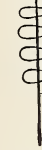
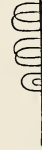

Bodlime. Prevents moths, caterpillars and other insects from ascending trees. A substitute for printer's ink and much cheaper. 5-lb. can 85 cts., 10-lb. can \$1.25, 25-lb. can \$2.25.

Potash Whale Oil Soap. A sure remedy for the San José scale and all other scales or lice on plants or trees. 5-lb. can, 50 cts., 10-lb. can \$1, 25-lb. can \$2.25.

Insect Emulsion. A clean and cheap remedy for lice on house plants or animals. 1-qt. can 30 cts., 2-qt. can 50 cts., 1-gal. can 75c., 2-gal. can, \$1.25.

Miscellaneous Requisites




Pot, Plant, Garden and Veranda Trellises

				
No. 00.	No. 00.	No. 0.	No. 0.	No. 0 1/2.
<p>No. 00. 18-in. stick. Each Doz. 3½ inches wide . . . \$0 05 \$0 50</p> <p>No. 00. Wide, 20-in. stick. 8 in. wide. . . 08 75</p> <p>No. 0. 24-inch stick. 5 inches wide . . . 08 75</p> <p>No. 0. Wide, 24-inch stick. 8 inches wide . . . 10 1 00</p> <p>No. 0 1/2. 24-inch stick. 7½ inches wide . . . 15 1 50</p>				
Bow Trellis				
<p>No. 1. 30-inch stick. 10 inches wide . . . 20 2 00</p> <p>No. 2. 30-inch stick. 14 inches wide . . . 30 3 50</p> <p>No. 3. 36-inch stick. 12 inches wide . . . 40 4 00</p>				

Fan Trellis

	Each	Doz.
18-inch fan, 7 inches wide at top	\$0 10	\$1 00
24-inch fan, 10 inches wide at top	15	1 50
30-inch fan, 13 inches wide at top	20	2 00
3-foot fan, 16 inches wide at top	40	4 00
4-foot fan, 27 inches wide at top	60	6 00
5-foot fan, 32 inches wide at top	75	8 00

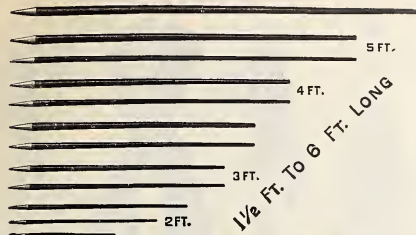
Ivy Trellis

		
Veranda Trellis.	Ivy Trellis.	Fan Trellis.

	Each	Doz.
16-inch diameter	\$0 45	\$5 00
20-inch diameter	60	7 00
Veranda Trellis		
2 feet high	\$0 30	\$3 00
3 feet high	40	4 00
4 feet high	50	5 00
5 feet high, 18 inches wide	70	8 00
6 feet high, 18 inches wide	80	9 00
7 feet high, 18 inches wide	95	11 00
8 feet high, 18 inches wide	1 10	12 00
9 feet high, 20 inches wide	1 25	13 50
10 feet high, 20 inches wide	1 50	16 50
11 feet high, 24 inches wide	1 75	21 00
12 feet high, 24 inches wide	2 00	22 50

Pot and Tree Labels

	PLAIN	PAINTED
	Per 100	Per 1,000
3½-inch wood pot-label	\$0 10	\$0 10
4-inch wood pot-label	10	40
4½-inch wood pot-label	10	50
5-inch wood pot-label	10	60
5½-inch wood pot-label	15	85
6-inch wood pot-label	15	15
8-inch wood garden label	40	3 50
		40

**Green Painted Plant Stakes**

Strong, durable and very neat.

	Each	Doz.	100
1 1/2 feet long	\$0 02	\$0 15	\$1 00
2 feet long	03	25	1 75
2 1/2 feet long	04	30	2 35
3 feet long	05	50	3 00
3 1/2 feet long	06	60	3 75
4 feet long	07	70	4 50
5 feet long	08	80	5 50

Heavy Green Painted Round Stakes

Suitable for cannas, dahlias, hollyhocks and all other plants requiring strong support.

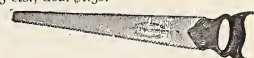
	Each	Doz.	100
3 feet long	\$0 07	\$0 70	\$4 50
4 feet long	09	90	6 00
5 feet long	10	110	7 10
6 feet long	12	1 30	10 00

Garden Tools, Etc.**Asparagus Knives.** For cutting asparagus below the ground. A convenient and valuable tool. Is also frequently used for removing dock, dandelion and plantain from lawns. Each 50 cts.**Eureka Fumigator.**

Imported and American; various sizes. 25 cts. to 75 cts.

Eureka Fumigator. For burning tobacco stems, etc., in greenhouses; made of heavy galvanized iron, in 3 sizes. No. 1, each \$1.50, No. 2 \$2, No. 3 \$2.50.**Dibbers.** Used for transplanting cabbage and cauliflower plants, etc. Metal. Each 35 cts.**Fruit Pickers.** Made of wire and very strong. Each 20 cts.**Grass Edging Knives.** For trimming the edges of turf. Each 50 cts.**Grass Hooks.** Imported and American; various sizes. 25 cts. to 75 cts.**Grass Edging Knife.****Edging Shears.****Sheep Shears.****Grass Hook.****Grass Edging Shears.** With long handles; for cutting the edges of borders. The best imported make. Without wheel, 9-inch blade \$3, 10-inch \$3.50; with wheel, 9-inch \$3.50, 10-inch \$4.**Grass, or Sheep Shears.** Best steel. Each 50 cts. to \$1.**Grafting Wax, Trowbridge's, or Lion Brand.** Put up in 1-lb., 1/2-lb. and 1/4-lb. packages. 25 cts., 15 cts. and 10 cts. respectively.**Knives, Budding.** Best imported steel. Each \$1 to \$1.50.**Knives, Pruning.** Best imported and American makes. Each 60 cts. to \$1.**Rubber Hose.** Best quality of rubber hose in 50-foot lengths, with the Standard Coupling, which is the finest coupling on the market. Size 3/4-inch and 1/2-inch. 8c. to 14 cts. per foot.**Mole Traps (Hale's Patent).** This trap is warranted to be the best and most complete Mole Trap ever invented and is superior to all others. Each \$2.**Mole Trap.****Plant Tubs.** Oak. Natural wood finish. These are neatly made, with galvanized iron handles. They are admirably adapted for use on lawns, in halls, etc. The bottom is made of pine, rendering the tub lighter and much more durable.

	Each
12 inches diameter; 11 inches high	\$1 10
14 inches diameter; 12 inches high	1 35
16 inches diameter; 13 inches high	1 75
18 inches diameter; 15 inches high	2 00
20 inches diameter; 17 inches high	2 50
24 inches diameter; 20 inches high	2 75

Plant Protectors**The Arlington.** Protects young plants from bugs, borers and fowls, also subdues wind, rain and light frosts. Each 15 cts., doz. \$1.50.**Pruning Saws.** For cutting heavy limbs of trees. Long, narrow blade, with teeth on each edge. 75 cts.**Brackets.** For Flower Pots. Can be attached to any wood work. Splendid for pots of hanging plants. For 1, 2 or 3 pots, 25 cts. to 60 cts.**Pruning Saw.****Flower-Pot Bracket.**

No. 22.	1 tray.	10 x 24 inches.	\$1.
No. 22.	2 trays.	7 1/2 x 30 inches.	\$2.25.
No. 20.	3 trays.	7 1/2 x 30 inches.	\$3.

**Wardian Stand****Wardian Plant Stands**

The Wardian Box is made of galvanized iron, painted green. Has drainage complete. No. 30. Tray 24 x 10 inches, 5 inches deep. \$3.50.

**Wire Plant Stand No. 22.****Wire Plant Stand No. 20.****Improved Wire Window Shelf for Plants**

With Adjustable Steel Brackets, complete. Strong, compact and low in price. Can be applied to any window molding on flat part of same. Brackets are constructed so as to allow for curtain between window and plants. Shelves 7 1/2 inches wide.

30-inch Shelf with Brackets complete, 75 cts.; 36-inch, 90 cts.; 42-inch, \$1. Additional lengths of shelves made to order. For every foot or less, add 25c. to above price. Back of brackets 3/4-inch, so they can be fastened to the narrowest moldings.

**Wire Window Shelf.**



Hardwood Plant Stands

The best of brown ash is used in the construction of the stands. Varnished on the natural wood.

No. 1, 3 shelves, \$1; No. 2, 4 shelves, \$1.25.

Standard Tree Pruner

The best and most practical tool on the market for pruning tall trees. The blade being thin, it offers very slight resistance to the wood in cutting, leaves the grain uninjured and the bark smooth, after cutting.



Wood Plant Stand.

	Each		Each
Length 4 feet . . .	\$0 75	Length 10 feet . . .	\$1 25
Length 6 feet . . .	80	Length 12 feet . . .	1 35
Length 8 feet . . .	1 10	Extra blades . . .	25

Rakes

Gibb's Lawn Rake. A steel, reversible and heavily timed rake. The strongest, lightest and finest looking rake ever made.



Gibb's Lawn Rake.

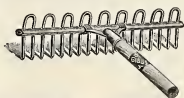
Tree Pruner.

No opening in front or back of head in which to collect dirt. Note the shape of the teeth. They run smooth and will not dig into the sod. 21-inch head, 24 teeth, with handle. 40 cts.



"Ohio-Girl" Lawn Rake.

"Boss" Garden Rake. The double teeth are used for breaking clods; will pulverize the ground finer and more quickly. Can also be used on lawns, around stables and on gravel walks or drives.



"Boss" Garden Rake.

Gem Lawn Rake. One of the best rakes for cleaning lawns. It is strongly made, light, durable and is easily operated. 40c.



Rustic Hanging Basket.

Rustic Hanging Baskets. Very strongly and artistically made of natural roots and knots, cleaned, trimmed and varnished. Diameters 8, 9, 10, 11 and 12 inches. Each 90 cts. to \$1.35.

Raffia. For tying plants; exceedingly strong and soft. Lb. 20 cts.

Berry Baskets

Our berry baskets are all manufactured of white wood and have tight corners and hence can be used for blueberries. They are put up in 1,000 lots in a good, strong crate. We have both the quart and oval pints. Price on application.

Verbena Baskets

Marston's pattern, adjustable wooden handles with tin fastenings on the end. 10 inches long, 5 inches wide, 3 inches deep. Prices on application.

Shears

The Levin Pruning. Has novel and excellent features; very light and strong. Each 50c. and 75c.

Pruning, New French. This is the best pruner ever offered; quality unequalled. Wherever used it has given great satisfaction. The small wheel at the movable end of the spring reduces the friction to a minimum. 8-inch \$1.50, 9-inch \$2.

Hand Pruners. Various. We keep on hand a variety of American makes. Each 40 cts. to \$1. Hand-pruning shears, by mail, 10 cts. extra.



The Levin Pruning Shears.



French Pruning.



California Pruning.



Rockdale Pruner.



Hedge.

Taylor's Pruning. The best low-priced pruner. Each 50 cts., 60 cts. and 70 cts.

California Pruning. 50 cts.

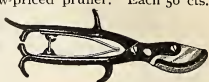
Rockdale Pruners. For cutting large branches; very strong and of finest quality. 26 and 41 inches long, each 75 cts. and \$1.

Hedge. Blade 8 inches long \$1.25, 9 inches \$1.35, 10 inches \$1.75.

Hedge, with Notch. For heavier wood. Blade 8 inches long \$1.45, 9 inches \$1.75, 10 inches \$2.

Border. See Grass Edging Shears.

Silkline. Extensively used for tying bouquet work and for stringing Smilax. Spool, each 25 cts.



Taylor's Pruning.



Trowels

Standard Garden. All steel. Best quality. 6-inch 40c., 7-inch 50c. **Primrose.** Blade riveted through the handle; two sizes. 15 cts. and 20 cts.

Thermometers

Hotbed, or Plunging. In turned wood case with brass pointed bottom; metal or paper scale. Each \$1 and \$2.

Maximum and Minimum. Heat and cold self-registering thermometers in black japanned case. \$3.

Minimum Registering. For florists' and gardeners' use. 8-inch tin case. 60 cts.

Medium Grade. Six-inch japanned white case. Black scale, with white figures. 30 cts.

Flange, Dairy. Seven-inch case, with sliding guard. 15 cts.

Incubating. See Poultry Supply Department.



Maximum and Minimum



Plunging, or Hotbed.



Minimum Registering.



Medium Grade.



Plant Sprinkler.



Scollay's Rubber Plant Sprinkler

Made of rubber, with flat bottom and finely perforated; detachable brass top. Very useful in bouquet making and window gardening, for sprinkling and for all purposes where a fine spray is required. Each 50 cts., 60 cts., 75 cts. and \$1.

With Angle Neck. 10c. extra. By mail, 10c. extra.
Insect Powder Bulb. A very useful device for applying any kind of insect powder to plants, etc. Will be found useful for house plants and to housekeepers generally. Each \$1. By mail, 10 cts. extra.



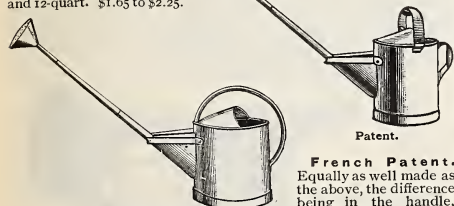
Watering Pots

Green Jannaped, with removable sprinkler.

	Each
1-quart	\$0 15
2-quart	20
4-quart	25
6-quart	30
8-quart	40
10-quart	45
12-quart	50
16-quart	75

Green Jannaped.

Patent. Made from the best quality iron and heavily galvanized, a heavy iron band on bottom makes The handles are riveted on and it well-ignid indestructible. Two copper-faced roses go with each pot for fine and coarse sprinkling. All with long spouts. Sizes 4, 6, 8, 10 and 12-quart. \$1.65 to \$2.25.



French Patent.

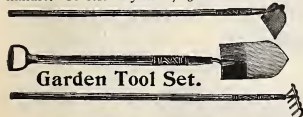
back and on the front of the can. The sides are somewhat flattened, making it better for carrying. 6 qts. \$1.75, 8 qts. \$2, 10 qts. \$2.25, 12 qts. \$2.50.

Low Watering Pot. Handy for watering plants on shelves, etc. \$1.35.

Active Weeders. Improved design with wide spread of fingers to give large capacity; heavily tinned; refined malleable iron, enameled handle. 10 cts. By mail, 15 cts.

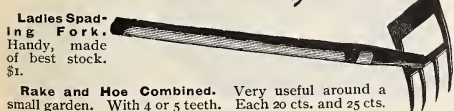


Weeder.



Garden Tool Set.

Garden Tool Sets. Suitable for ladies' use. Made of best quality steel. Very durable. Set \$1.



Rake and Hoe Combined. Very useful around a small garden. With 4 or 5 teeth. Each 20 cts. and 25 cts.



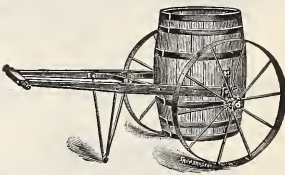
Tree Scraper. Made of steel. 50 cts.

Terra Cotta Garden Vases. Our Terra Cotta Garden Vases now stand in the front rank for beauty and workmanship. Terra Cotta Vases are indestructible, and are suitable for any climate; being slightly porous, they hold moisture for the want of plants. Iron draws the heat of the sun, consequently keeping the vase hot and drying the earth. Our vases are nearly all made of one piece, while others are in two, requiring an iron rod in the center. We warrant every vase. Send for illustrated price-list.



Iron Cemetery Bouquet Holders. Made with long spikes for plunging in the earth. Will hold water for cut-flowers. From 20 cts. to \$2.25 each.

Water Barrel Cart. Used for street sweepings, lawn, rubbish, for carrying water and for innumerable other purposes; a very useful cart in many ways. \$10.



Water Barrel Cart.

Cemetery Vase.

Indurated Fibre Flower Pot Saucers

The moisture cannot soak through them.

	Each	Doz.
5 inches	\$0 06	\$0 65
6 "	08	85
7 "	09	90
8 "	10	100
9 "	11	110
10 "	12	120
12 "	15	140
14 "	18	150
16 "	20	180

Pansy Pans. 8-inch, doz. \$4; 10-inch, doz. \$5.

Grass Pots. Very ornamental when kept filled with water and grass seed sown on the outside. 25 cts.

Rolling Stands for Heavy Plants

	12-inch	Doz.
13 "	\$0 60	65
14 "	08	75
16 "	10	85
18 "	12	100
20 "	15	125
22 "	18	150



Rolling Stand.

Flower Pots and Saucers

	Doz.	Doz. — Pots & Saucers
2 -inch	\$0 10	\$0 10
2 1/2 "	12	12
3 "	15	12
3 1/2 "	20	15
4 -inch	25	18
5 "	40	24
6 "	60	32
7 "	90	45
8 "	125	60
10 "	175	75
12 "	300	95
14 "	350	110
16 "	500	135



Flower Pot.

Round Seed Pans

	Each	Doz.
6-inch	\$0 07	\$0 72
7 "	08	85
8 "	10	95
9 "	13	135
10 "	15	160
12 "	20	215



Seed Pan.

Fern Pans

Something new in Fern Pans and Saucers. These pans are made thin and strong and the saucers very shallow. They are very popular, and are made in eight sizes, sold with or without saucers. The pans are especially adapted for linings to porcelain and silver fern pans. Dimensions given are outside measurements.



Fern Pan.



Flower Pan Saucer.

	Pans	Saucers
	Each	Doz.
4 x 1 1/2 inches	\$0 03	\$0 35
4 1/2 x 2 1/4 "	04	45
5 1/2 x 2 1/4 "	05	55
6 1/2 x 2 1/4 "	06	70
7 x 2 1/2 "	08	85
8 x 3 1/4 "	12	1 25
9 x 3 1/4 "	15	1 50
10 x 4 "	20	2 10



Hanging Pot.

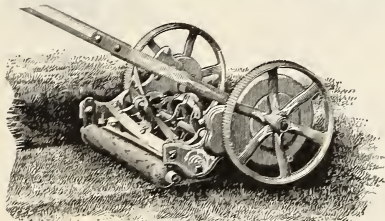
Hanging Pots.
In many sizes and styles. From 15 cts. to 75 cts. each.

Jardinières. We carry a large variety of these goods, both imported and domestic manufacture. All prices.



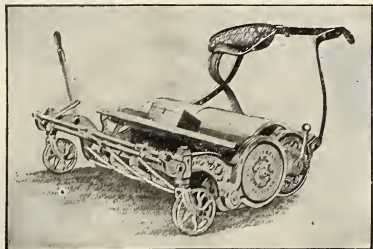
Jardinières.

THE COLDWELL LAWN MOWER



The Park Mower

Is made with a long reach and triple gears to enable it to cut high and for grass on even surfaces; it will work equally as well on a velvety and smooth lawn. This Mower has the Coldwell patent indestructible ratchet. In Lawn Mowers, as a rule, the ratchet is the weakest part, it having to do the most work. It also has a patent terrace-moving device and adjustable brass bushings in journals, by means of which, with the aid of a set-screw, all the wear can be taken up. It has the simplest adjustment of the knife that is made. We wish to state that the finish and quality of work which this Mower will do cannot be beaten. 14-inch \$8, 16-inch \$9, 18-inch \$10, 20-inch \$11.



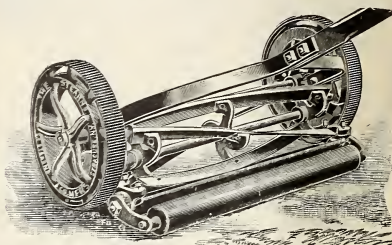
Coldwell's Improved Horse Mower.

Coldwell's Roller Mower

This Roller Mower we recommend for exceptionally fine work and newly-made lawns, as it will not only roll down and smooth a new lawn, but it will protect it against the upheavals caused by dampness, insects, etc. Used on all the leading golf grounds in America.

Coldwell's Improved Horse Mower

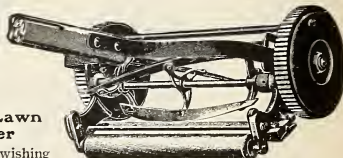
Coldwell's Improved Horse Mowers are fitted up throughout with the best of steel shafting, composition bushings or bearings, polished oak foot-boards, Loring Co's knives, etc., and the workmanship is acknowledged by the Trade in general to be the best of any Lawn Mower made in America. These mowers have been adopted for use by the United States Government and by the New York City Park Board after competitive exhibitions of work done and durability. Each and every one of the machines is guaranteed to give entire satisfaction to the purchaser.



Sterns Ball-Bearing Lawn Mower.

Sterns Ball-Bearing Lawn Mower

The advantages of ball-bearing are well understood. There is the same reason for their use on a lawn mower as there is on a bicycle, to make it run easy. On its accurate ball-bearings the cylinder of Sterns Mower revolves at high speed with the free movement of a bicycle wheel. While it runs so much easier and with less noise than other mowers, it cuts faster, cleaner, more evenly, does not push the grass before it, but cuts every spear, leaving the surface of the lawn perfectly smooth. 14-inch \$7, 16-inch \$7, 18-inch \$8, 18-inch \$9, 20-inch \$10.



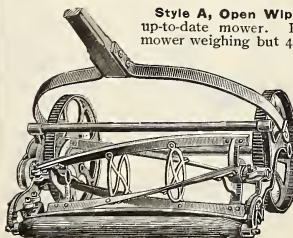
Casco Lawn Mower.

Casco Lawn Mower

To people wishing a low-priced, strongly built, durable and easy running lawn mower, we recommend the Casco. 8-inch wheel. 12-inch cut \$2.75, 14-inch cut \$2.75, 16-inch cut \$2.75, 18-inch cut \$3.

Philadelphia Lawn Mowers

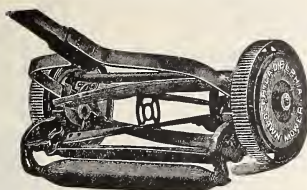
Style A, Open Wiper. A strictly first-class up-to-date mower. It is all steel, a 21-inch mower weighing but 47 pounds, so light that it works easily. It has train of three gears and with its double ratchet both wheels are drivers. It runs smoothly and gives the finest cut, which, combined with its great durability, no one should make complaint of the first cost in price, if they wish the best machine on the list. 15-inch \$11, 17-inch \$12, 19-inch \$13.50, 21-inch \$15.



Style A Mower.

PHILADELPHIA LAWN MOWERS, continued

Style C, Open Wiper. This style, medium high wheel, is to supply the demand for a mower which has real merits and is light running and durable and easy to handle. 4 blades, 8½-inch wheel, 14-inch cut, weight 36 pounds, \$5.50; 16-inch cut, weight 40 pounds, \$6.50; 18-inch cut, weight 42 pounds, \$7.50.



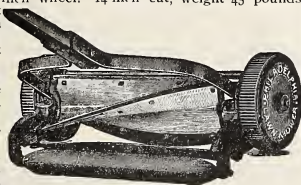
Style C Mower.

Style D, Closed Wiper. 7-inch wheel 10-inch cut, weight 36 pounds, \$4.25; 12-inch cut, weight 38 pounds, \$5.25.

Style K, Open Wiper. A strictly first-class mower. The greater diameter of the cylinder with five blades insures fine cut and with its large driving wheels it is the lightest running, best single pinion mower

made. 5 blades. 10-inch wheel, 14-inch cut, weight 48 pounds, \$8; 16-inch cut, weight 51 pounds, \$9; 20-inch cut, weight 54 pounds, \$10.

Style M, Closed Wiper. This is the original Philadelphia 1870 pattern mower, adapted for rough as well as smooth land. Standard the world over. 14-inch cut, weight 36 pounds, \$5.50; 16-inch cut, weight 38 pounds, \$6.50; 18-inch cut, weight 44 pounds, \$7.50.



Style M Mower.

Lawn Mowers sharpened and repaired.

Garden and Lawn Rollers

Sec.	Length	Diam.	Weight	Price
2	7½ in.	12 in.	125 lbs.	\$6 00
3	7½ in.	15 in.	175 lbs.	7 50
1	12 in.	20 in.	150 lbs.	9 50
2	12 in.	20 in.	300 lbs.	12 25

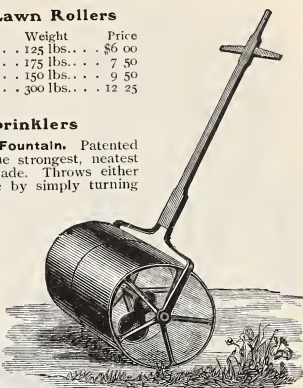
Lawn Sprinklers

The Mystic Lawn Fountain. Patented August 6, 1895. The strongest, neatest and best sprinkler made. Throws either whole or half circle by simply turning thumb-piece. 75c.

The New "Rainmaker" Lawn Sprinkler. No revolving parts. 50c.



"Rainmaker" Lawn Sprinkler.



Garden and Lawn Roller.

California Lawn Sprinkler. Three-arm revolving sprinkler. \$1.25.
Twin Comet. The three upper arms revolve rapidly and carry around a slowly revolving nozzle which sprinkles the ground for a great distance. Nickel-plated, very durable. Height 17 inches. \$5.

Croquet Sets

We are agents for the Maine Manufacturing Company's Croquet Sets, which is a standard line. Each 75 cts. to \$5. We carry a full line of professional sets

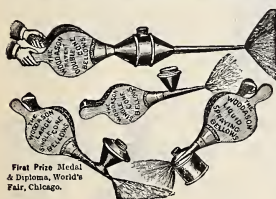


Croquet Set.

Sprayers and Insecticide Distributors

Bellows, Woodason's. For Liquid and Powder

These are really high-grade goods that will, with proper care, last many years and do satisfactory work.



First Prize Medal & Diploma, World's Fair, Chicago.

Small single cone for applying powder	\$1 25
Large single cone for applying powder	2 25
Double cone for applying powder	3 25
Sulphur bellows	1 75
Large liquid spraying	2 25
Medium liquid spraying	1 75
Small liquid spraying	1 25

Cyclone Spraying Pump. For spraying Paris green and other insecticides on potato vines, shrubs, small trees, live stock and poultry. Made of tin, 50 cts.; copper, \$1.



We Are State Agents for The Dew-ey Sprayer.



The only Hand Sprayer that will make a mechanical emulsion. Saves time, money, labor. The best "all around" Sprayer, doing excellent work in the field, garden, orchard, greenhouse, stable and hennery. It is well made in brass. \$1.75.



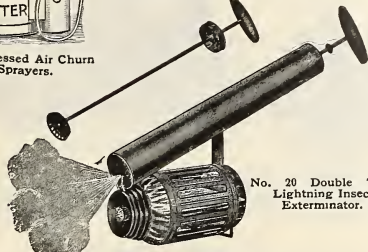
The Twin Pipe Sprayer. The latest improved and most desirable Sprayer made. Its advantages are easily seen, the spray pipes being far apart and so arranged as to throw a fine spray, covering a greater width than can be done by any other Sprayer, and therefore will be found particularly adapted for growers of potatoes, tomatoes, tobacco, etc. \$1.



Compressed Air Churn Sprayers.

Compressed Air Churn Sprayers. These Sprayers make a perfect mechanical kerosene emulsion. Leggett's Churn Sprayers work by compressed air, and throw a continuous spray by simply working the pump for a few minutes at intervals. They are furnished in three sizes—one, two and ten gallons—and are made in a substantial manner of galvanized iron, brass and tin. May be used to great advantage where kerosene and water are required, but work equally well for water and Paris green or other insecticides. Made in three sizes. 1, 2 and 10 gallons, \$3.50, \$4.50 and \$8.50 each.

No. 20 Double Tube Lightning Insect Exterminator. These Sprayers are adapted for every kind of insect killing and spraying purposes, and will be found a most convenient machine for every farmer, florist and housekeeper. 75 cts.

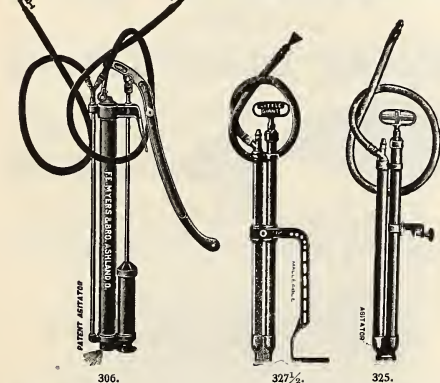


No. 20 Double Tube Lightning Insect Exterminator.

Myers' Spraying Pumps

These Spray Pumps are constructed entirely of brass, a material that is not affected by the poisonous arsenites used in different formulas for spraying fruit trees, vines and shrubbery. They are so arranged that the labor of pumping is all done on the downward stroke of the piston and nothing on the up. The effect of this operation while pumping is to hold the pump down. The foot rest steadies the pump, holding it in proper position.

No. 305. Myers' Improved Barrel Spray Pump, complete, with 5 feet of $\frac{1}{2}$ -inch 3-ply discharge hose and Myers' graduating Vermorel nozzle. \$6.



No. 306. Myers' Improved Barrel Spray Pump, complete, with two leads of $\frac{1}{2}$ -inch 3-ply discharge hose, each 5 feet long, and two Myers' graduating Vermorel nozzles. \$7.

No. 327. Little Giant Brass Spray Pump, with agitator, complete, with hose and Imperial combination fine, coarse spray and solid stream nozzle, with malleable foot rest. \$3.

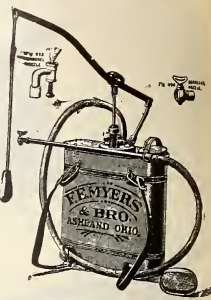
No. 325. Myers' Imperial Brass Spray Pump with agitator, complete, with hose and graduating Vermorel fine, coarse spray and solid stream nozzle and malleable foot rest. \$3.

The Myers Perfect Knapsack Spray Pump

No. 330. The Myers Galvanized Knapsack Spray Pump, fitted with 5 feet of $\frac{1}{2}$ -inch hose, pipe extension and bordeaux or graduating Vermorel spray nozzle, which can be graduated from a fine mist spray to a solid stream, or shut off entirely. \$6. Any other nozzle furnished with these pumps when ordered.

No. 331. Myers' Perfect Knapsack Spray Pump, complete, with hose, stop-cock, pipe extension, bordeaux or graduating Vermorel nozzle. Made with copper tank, \$10.

8-ft. pipe extension, 30 cts.



Myers' Perfect Knapsack Spray Pump.

Nozzles



Bordeaux Spray and Solid Stream Nozzle. Use this nozzle for whitewashing. Will throw a fine fan-shaped spray and will readily free itself should it become clogged by turning the cock handle. It will throw a solid stream or may be shut off altogether, as desired. It is especially recommended for use in connection with the bordeaux mixture and all Knapsack Sprayers. 80 cts.

Cyclone Nozzle. Are so arranged that the disc or cap as shown can be unscrewed and cleaned out at any time. They are fitted to attach $\frac{1}{2}$ -inch pipe or $\frac{1}{4}$ -inch male end, and can be used with any of our pipe extensions. The spray opening is at the side or straight away. 75 cts.

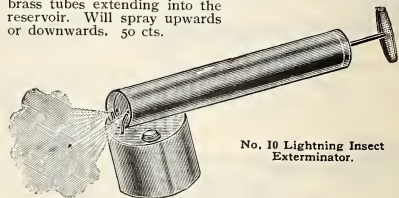


Imperial Spray Nozzle. An Improved Spray Nozzle which will throw a mist like spray. This nozzle is improved over the regular Myers nozzle, as follows: The nozzle can be cleaned by simply removing the cap. 50 cts.

Improved Vermorel Nozzle, with Degorger. Arranged with stuffing box, so that the liquid will not wet the operator while being used; fitted for $\frac{1}{2}$ -inch male end or $\frac{1}{4}$ -inch pipe. Each nozzle is furnished with two caps, with different sized openings for coarse or fine spray. Gawck, \$1.



No. 10 Lightning Insect Exterminator. Made with double brass tubes extending into the reservoir. Will spray upwards or downwards. 50 cts.



No. 10 Lightning Insect Exterminator.

Leggett's Champion Dry Powder Gun

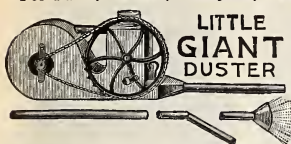
For Distributing Dry Insecticides and Fungicides

Will green two rows of potatoes at once, as fast as a man walks. Adjustable to any width of row. Many thousands in use. Distributes green, London purple, hellebore, sulphur, lime, "fungiroid," tobacco dust, etc. Will do as much work in a day as a horse-power sprayer. For the farm, orchard, vineyard and garden. The length of the Champion is such that the poison is kept at a safe distance from the operator. \$7.50.



Little Giant Duster

For Farm, Garden, Vineyard, Tobacco Fields, Etc.



with tubes, 4 feet 8 inches. Any one can use it. Will not get out of order or clog, and with good usage will last for years. \$5.

Distributes Paris Green, London Purple, Hellebore, Sulphur, Fungicide (the Dry Bordeaux Mixture), Paris Green and Fungicide Compound, Spanish Pink, Pyrethrum Powder, etc. Weighs only 5 pounds complete. Full length



Acme Powder Gun

Useful for distributing all kinds of powder for killing insects on crops. 75 cts.

Dairy Supplies

Stoddard Barrel Churns

One of the best churns on the market. The Stoddard Churn is manufactured in a most thorough manner, being made of kiln-dried white oak. It will last for years. The principle is concussion and not friction, and it has no floats or paddles inside. It is easily operated, easily cleaned, the easiest churn to get cream into and the easiest churn to get butter out of, because the entire top can be removed.

Prices, Dairy Size

			M'tr	Our net
			price	price
No. 1,	10 gal.	Churns from 1 to 4 gallons cream . . .	\$8 00	\$6 00
No. 2,	15 gal.	Churns from 2 to 7 gallons cream . . .	9 00	6 75
No. 3,	20 gal.	Churns from 3 to 9 gallons cream . . .	10 00	7 50
No. 4,	25 gal.	Churns from 4 to 12 gallons cream . . .	12 00	9 00
No. 5,	35 gal.	Churns from 5 to 16 gallons cream . . .	14 00	10 50
No. 5½,	45 gal.	Churns from 5 to 20 gallons cream . . .	17 00	12 75
No. 6,	60 gal.	Churns from 6 to 28 gallons cream . . .	20 00	15 00

Pulleys for power extra. 12-inch iron or cone pulley, including extra heavy frame, \$3. Cone pulley attachment for dog power, \$3.

Hero Churns

To people wishing a lower-priced barrel churn we recommend the Hero.

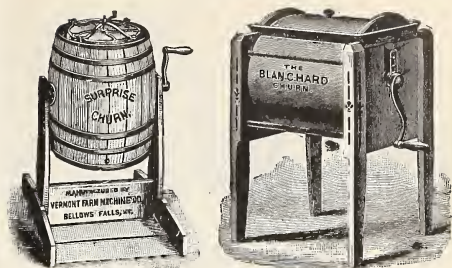
			M'tr	Our net
			price	price
No. 1,	10 gal.	Churns from 1 to 5 gallons cream . . .	\$8 50	\$4 50
No. 2,	15 gal.	Churns from 1 to 7 gallons cream . . .	9 00	5 00
No. 3,	20 gal.	Churns from 2 to 9 gallons cream . . .	12 00	6 00
No. 5,	35 gal.	Churns from 3 to 16 gallons cream . . .	16 00	6 50

Surprise Churns

This is the best of all barrel churns. The irons holding the heads are galvanized. It is hand-made of thoroughly kiln-dried white oak. The bottom of the churn is weighted to counterbalance the cover. It has a superior method of fastening the cover, which never gives way and lets the head out, as is frequently the way with other methods of fastening.

			M'tr	Our net
			price	price
No. 1,	Churns 1 to 4 gals. cream, capacity 10 gals. . .		\$8 00	\$6 00
No. 2,	Churns 2 to 7 gals. cream, capacity 15 gals. . .		9 00	6 75
No. 3,	Churns 3 to 9 gals. cream, capacity 20 gals. . .		10 00	7 50
No. 4,	Churns 4 to 12 gals. cream, capacity 25 gals. . .		12 00	9 00
No. 5,	Churns 5 to 16 gals. cream, capacity 35 gals. . .		14 00	10 50
No. 5½,	Churns 5 to 20 gals. cream, capacity 45 gals. . .		17 00	12 75
No. 6,	Churns 6 to 28 gals. cream, capacity 60 gals. . .		20 00	15 00

Extra for one 12 x 3 pulley, \$3. Extra for tight and loose pulley, 12 x 3, \$5.



Blanchard Churns

The principal points of merit in the Blanchard Churn are the ease with which it may be cleaned; it has few inside corners or angles; every part of the interior is visible and easy of access, very convenient for removing the butter and is simple in construction. Their popularity is attested by the enormous number of them now in use.

		Our net
		price
No. 3,	Churns up to 3 gallons of cream . . .	\$4 00
No. 4,	Churns up to 4 gallons of cream . . .	4 50
No. 5,	Churns up to 6 gallons of cream . . .	5 50
No. 6,	Churns up to 12 gallons of cream . . .	6 50
No. 7,	Churns up to 16 gallons of cream . . .	8 00



Lightning Churns

Owing to the constantly increasing number of stock owners who send the bulk of their milk or cream to the creameries, simply retaining enough to provide for home consumption, there has arisen a demand for a small, light, quick acting churn, durable in workmanship and neat in finish.

To meet this need, we have put in our stock the Lightning Churn, which has met with a rapid sale.

		Price
No. 0,	Holds 4 gallons. Will churn 2 gallons . . .	\$2 50
No. 1,	Holds 6 gallons. Will churn 3 gallons . . .	3 25
No. 2,	Holds 8 gallons. Will churn 4 gallons . . .	3 50
No. 3,	Holds 10 gallons. Will churn 5 gallons . . .	4 00

For CYLINDER CHURNS, see next page.

Combination Butter Prints

The demand for the Combination Butter Print has largely increased during the past few years, the average dairyman being more particular about the appearance of his butter. For this reason we have placed on the market one of the best combination butter prints ever manufactured, being made of the best and finest selected wood and the carving being second to none. Prints engraved to order with any design; initials or monograms without extra charge.



Combination Butter Prints.

No. of print	No. of cakes	Capacity molds in lbs.	Capacity each cake in ounces	Dimensions of each cake	Dimensions of each cake	Price
1	3	1½	8	10x3½	3½x3½	\$3 50
2	4	2	8	11x3½	3½x3½	3 75
3	4	2	8	12x3	3 x3	3 75
4	4	1	4	4½x5	2½x2½	3 50
5	4	1	4	10x2½	2½x2½	3 75
6	8	2	4	10x4½	2½x2½	4 50
7	6	1½	4	10x3½	3½x1½	4 25
8	12	1½	2	12x4	2 x2	5 00
9	16	1	1	10x3	1½x1½	5 00
10	24	1½	1	10x4	1½x1½	5 25
12	8	4	8	11x5	2½x2½	4 50
20A	4	2	8	11x4½	3½x2½	3 75

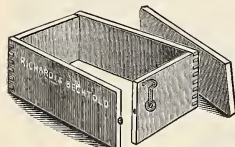


Cylinder Churn.

Cylinder Churns

Superior in material and workmanship. Made from special selected stock and highly finished. Acknowledged to be the best cylinder churn on the market.

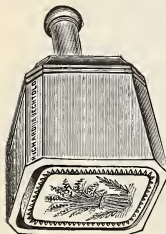
	Price
No. 1, capacity 2 3/4 gal.	\$1 50
No. 2, capacity 4 gal.	1 75
No. 3, capacity 7 gal.	2 00
No. 4, capacity 10 1/2 gal.	2 25
No. 5, capacity 15 gal.	2 75

Butter Moulds

Boston Hinge Butter Mould.



Round Butter Mould.



Square Butter Mould.



Blanchard Butter Mould.

Round Butter Moulds, with Design. 1 lb. 25 cts., 3/4 lb. 20 cts., 1/2 lb. 15 cts.

Round Butter Moulds, with Initial. 1 lb. 30 cts., 3/4 lb. 25 cts., 1/2 lb. 20 cts., individual 15 cts.

Boston Hinge Butter Mould. 1-10, size, 20 cts.

Square Butter Moulds, with Design. 1 lb. 50 cts., 3/4 lb. 35 cts., 1/2 lb. 25 cts.

Square Butter Moulds, with Initial. 1 lb. 60 cts., 3/4 lb. 50 cts., 1/2 lb. 35 cts., individuals 25 cts.

Blanchard Butter Moulds. 3/4 lb., in two quarters, 65 cts.; 1 lb., in four quarters, 75 cts. For carving with initials, add 25 cts. for each letter.

Butter Prints. In different designs. 10 cts.

**Milking Tubes**

They are nicely made from metal and heavily plated with pure silver and warranted equal to solid silver. These tubes will fill a long-felt want by dairymen and farmers for a cheap article for drawing milk from cows with sore or obstructed teats.

	Price
No. 1. Small	\$0 25
No. 2. Medium	30
No. 3. Large	40
Full set of each size	75

We send tubes by mail on receipt of price.

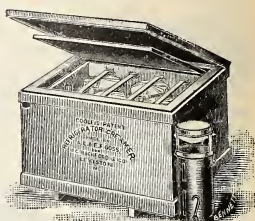
Cooley Creamers
Prices of Tanks, Less Cans

No.	Price
1, for three cans	\$8 55
2, for four cans	11 40
3, for six cans	13 30
4, for eight cans	15 20
5, for ten cans	16 63
6, for twelve cans	18 05
7, for fourteen cans	20 90
8, for sixteen cans	24 70

Price of tank includes strainer frame and thermometer.

Creamery Cans

	Each
Cooley	\$1 75
Eclipse	1 75
Maine	1 25



"Refrigerator" Style.

Cream Ripeners, Pail and Agitator

This pail will be found very convenient for storing cream during the time intervening between skimming and churning. The motion of the agitator, owing to its peculiar construction, is much more effective than a ladle. Use the agitator eight or ten times a day and your cream will have uniform ripeness.

	Price
2 gallons, with agitator	\$2 50
4 gallons, with agitator	3 00
6 gallons, with agitator	3 50

Champion Milk Cooler

The Champion Milk Cooler is probably the best aerator on the market. It is so arranged that you can fill it with ice water, or if running water is to be had, attach hose to the tube in the center of the bottom of the cone. It brings every particle of the milk in contact with pure air. It increases the keeping qualities of the milk by removing the animal heat. It also removes from the milk the odor of foul-smelling feed, such as silo, cabbage or turnip, and thus prevents the rapid formation of the bacteria which causes sour milk.

No.	Price
No. 2, 3 to 25 cows	\$7 00
No. 3, 10 to 50 cows	8 00

Pyramidal Strainer

The best strainer on the market. Can be used in any kind of can. Cleans milk faster than any other strainer on account of having four exposed strainer sides in one.

	Price
Strainer, with rest or funnel	\$1 25
Strainer, with rest and funnel	1 40
Extra rests or funnels	15

Milk Pails

Strainer Pail.



Anti-Rust Pail.



Milk Pail.

Strainer Pails. With removable wire cloth. 10-quart 75 cts. each, 14-quart 95 cts.

Anti-Rust Milk Pails. Superior anti-rust milk pails. 12-quart 75 cts. each, 14-quarts 85 cts.

Milk Pails—

	Each
IX. 12-quart	\$0 30
IX. 14-quart	35
XXX. 12-quart	40
XXX. 14-quart	45

Worcester Salt. For kitchen and dairy.



Facile Milk Tester.



Babcock Milk Tester.

Milk Testers

Facile. Handsome cast-iron case and cover, cut spur and worm gearing, malleable iron bottle carrier, seamless brass swinging pockets for holding test bottles, enclosed gearing, bottles perfectly horizontal when rotating, turns easily and run smoothly and noiselessly at a very high speed. For 6-bottle \$8.

Babcock. We can say of this machine that for a combination of strength and simplicity and ease of operation it is unexcelled by any hand machine before the public today. We carry these in five sizes, 4-bottle, 6-bottle, 8-bottle, 10-bottle and 12-bottle. Write for circulars and price-list. For 4-bottle \$7, 6-bottle \$7.50.

Butter Carriers

We call special attention to our Butter



Carrier, as we firmly believe it is the best butter carrier on the market. It is wholly constructed of white wood and has heavy galvanized trimmings. You will readily perceive the advantage of this, as with the old kind, the japan or paint was constantly being worn off and soon rusting, thus making a very undesirable looking carrier, besides the danger of some of the japan or

rust coming in contact with the butter. We carry these constantly in stock for the combination moulds in both the ½-lb. and ¼-lb. prints.

One-Half Pound Combination Moulds

No.	Capacity	No. trays	Size tray	Stamp	Price
8	24 lbs.	3	12½ x 13½	Com. ½ lb.	\$1 60
9	32 lbs.	4	12½ x 13½	Com. ½ lb.	1 75
10	40 lbs.	4	12½ x 16½	Com. ½ lb.	2 00
11	50 lbs.	5	12½ x 16½	Com. ½ lb.	2 25

One-Fourth Pound Combination Moulds

No.	Capacity	No. trays	Size tray	Stamp	Price
21	24 lbs.	4	10½ x 14½	Com. ¼ lb.	\$1 60
22	30 lbs.	5	10½ x 14½	Com. ¼ lb.	1 75
23	40 lbs.	5	10½ x 18½	Com. ¼ lb.	2 00
24	48 lbs.	6	10½ x 18½	Com. ¼ lb.	2 25

Ice boxes with 3 extra trays, 75 cts. extra.

New York Pattern Milk Cans

We claim that this is the best railroad milk can on the market. The stopper not only serves as such but also as a hood for the top of the can, thus shedding all cinders and other dirt and when the can is opened it is utterly impossible for any dirt to get into the contents. 10-gallon \$3. Price of other sizes on application.



Milk Bottle.

Milk, or Cream Bottles

	Per Doz.
½ pt. Lightning, with tin top	\$0 60
1 pt. Lightning, with tin top	75
1 qt. Lightning, with tin top	90
2 qt. Lightning, with tin top	1 25
½ pt. Common Sense, paper top	55
1 pt. Common Sense, paper top	65
1 qt. Common Sense, paper top	85
2 qt. Common Sense, paper top	1 15

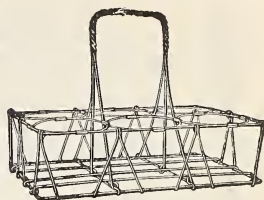
We carry these in both the 1½-inch and 1¾-inch diameter at the mouth of the bottle. Prices quoted on application, in gross lots.

Milk Bottle Holders

4 quarts 65 cts. each, 6 quarts 75 cts., 6 pints 65 cts.

Paper Caps for Milk Bottles

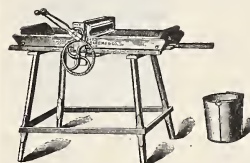
We sell nothing but the waxed cap, which will not absorb water or milk and we carry them in both sizes, 1½ and 1¾ inches. 1,000 40 cts., 1,000 in full cases of 5,000 35 cts.



Milk Bottle Holder.

Milk Bottle Brushes

Made from full bristles. 25 cts.



Waters Butter Worker.

Waters Butter Worker

The best device ever offered to the public for working butter in the dairy is the Waters Butter Worker. It comprises more advantages than any other. It is practical, efficient, desirable. The tray is removable and thus takes the place of the butter bowl. Will work in any condition satisfactorily. Made in sizes to suit any dairy.

Size	Length of tray	Width of tray	Capacity	M'Tr price	Our net price
No. 0	27 inches	14 inches	1 to 15 lbs.	\$7 00	\$6 00
No. 1	36 inches	15 inches	5 to 30 lbs.	8 00	7 00
No. 2	36 inches	18 inches	5 to 40 lbs.	9 00	8 00
No. 3	36 inches	20 inches	5 to 50 lbs.	10 00	9 00
No. 4	48 inches	22 inches	10 to 75 lbs.	12 00	11 00

Butter Tubs

We are headquarters for the finest spruce butter tubs on the market. We have one factory that makes exclusively for us and they are the finest tubs that are put on the market. We carry constantly on hand 10-, 20-, 30- and 50-pound sizes and have on hand, always, at least a carload; therefore, we are able to fill any orders without delay. Special prices for large quantities. Write for prices.



Butter Tub Cover Fasteners

Leader. 75 cts. per 1,000.

Butter Boxes

We carry constantly in stock large quantities of both round and square butter boxes. The round sizes are made from nice selected stock, which is thoroughly steamed and entirely odorless and tasteless. We supply large quantities of these to the creameries. We would call special attention to the crate in which ours come packed, as it has an extra slat and therefore the boxes will not fall out in transportation. Our square or Dumas butter boxes are all parchment lined, made of selected spruce, and are all free from knots or stains. Quantity prices on application.

Folding Paper Butter Boxes

Odorless and tasteless. With or without printing. Write for prices.

Parchment Butter Paper

For wrapping or covering butter. We carry a large assortment of this constantly on hand in the popular sizes. Our paper is made by the best manufacturer of paper in the world and is entirely free from chlorine or other chemicals used in the manufacture and therefore on wetting it will not taint the butter. It is entirely odorless. Price 15 cts. a pound. Special quotations on quantities for creameries, etc. We are also glad to quote on special designs in printing in large quantities.

Butter and Cheese Tryers In All Sizes and Designs

Cheese Tryer, rosewood handle, nickel	Each
Cheese Tryer, steel, one piece	\$2 50
Butter Tryer, 17 inches long, nickel, two pieces	35
Also many other styles and sizes.	1 00

Dairy Spades	10 cts. to	25
Butter Ladles	5 cts. to	25
Wooden Butter Knives	10	
Butter Eveners and Butter Packers	50 cts. to	75
Factory Ladles	50 cts. to	1 00

Butter Color

Wells & Richardson's Improved Butter Color. This is one of the best Butter Colors on the market. It is made by new methods, and will not become rancid nor color buttermilk. It gives a superb color.

Small size, 4 ozs., colors about	Each
500 lbs.	\$0 25
Medium size, 10 ozs., colors about	
1,200 lbs.	50
Large size, 24 ozs., colors about	
2,800 lbs.	1 00
1-gal. cans	2 25

Special Quotations to Creameries for Large Quantities.



Hanson's Danish Butter Color	Each
Small size, will color about 500 lbs.	\$0 25
Medium size, will color about 1,200 lbs.	50
Large size, will color about 2,800 lbs.	1 00
1-gal. cans	2 25

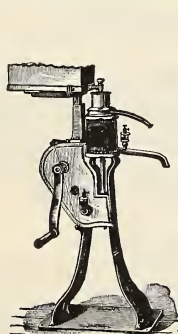
Special Quotations on Large Quantities to Creameries.

Portland Scales

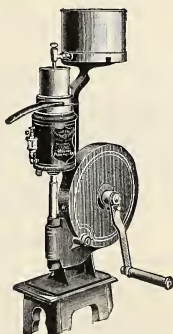
Finished in natural hardwood, and will weigh from 100 to 500 lbs. \$10.

United States Cream Separator

Cream Separators have been on the market for more than 15 years, in certain forms, generally too complicated to be of practical value, and it is only since the introduction to the public of the simple and efficient Improved United States Cream Separator that they have come into the general use seen today.



United States Separator.



Baby United States Separator.

A Separator, in order to be practicable in the dairy, must be simple in construction, perfectly made in all parts and the parts interchangeable, strong, substantial and durable, and in every way so made as to be run successfully in the hands of a man who, in most

cases, makes no claim to knowledge of the machinist's trade. These requirements are found carried out fully in the construction and manufacture of the Improved United States Separator.

1900, or the New Century

The capacities have been very materially increased. An increase of 20 per cent was made in 1896 over former capacities; again increased 20 per cent in 1898, and are now still further increased 25 per cent for 1900.

A further improvement for 1900 is the construction of the internal bowls or cups, which are made corrugated in place of the smooth cups. With the corrugated cups the flushing of the cream from the Separator at the close of a run is accomplished by running from two to four quarts of the skimmed milk through the separator. It is not necessary to use hot water for this purpose unless users prefer to do so.

We claim for the United States Separator that it will skim closer than any Separator on the market. It is better constructed, runs smoother and easier, the bowl is more evenly balanced and will not wobble or shake, especially after being run one or two years. The bowl is easier to wash and keep clean.

Why the Owners of the Largest Hotel in Maine Prefer the United States to the DeLaval

SOUTH POLAND, MAINE, August 26, 1899.

We have had one of the Improved United States Separators in operation about two months, and so far it has given perfect satisfaction. One of the principal points in its favor is the fact that the milk is separated from the cream without churning the latter. We purchased a DeLaval Separator, but were unable to use it, as it churned the cream so badly that it could not be used in tea or coffee. Our brief experience with the United States Separator convinces us that this difficulty is overcome in this machine.

HIRAM RICKER & SONS, Inc.,
Proprs. Poland Spring Hotel.

Prices for United States Separators

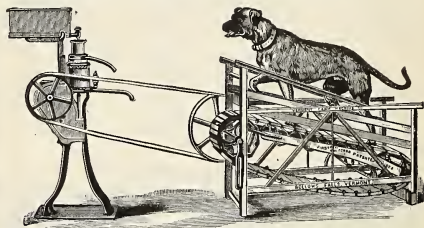
No. 9, capacity per hour, 150 to 175 lbs.	Each
No. 8, " " " 225 to 250 "	\$50 00
No. 7, " " " 275 to 300 "	60 00
No. 6, " " " 350 to 400 "	85 00
No. 5, " " " 450 to 500 "	100 00
	125 00

DeLaval Cream Separator

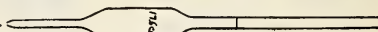
We carry constantly in stock New Style Baby, Nos. 1, 2 and 3.

New Style Baby, No. 1, capacity 250 to 300 lbs. per hour	List price
" " " " 2, " 350 to 400 "	\$100 00
" " " " 3, " 700 to 750 "	125 00
	200 00

Write for special discounts and send for descriptive circulars. We are in a position to offer extra special discounts.



Dog, or Sheep Power. For running cream separator, churn or doing other light kind of work. Write for circular and prices.



Pipettes

For milk, 17.6 C. C.	Each
For cream, 18 C. C.	\$0 25
	25

Acid Measures

17.6 C. C.	30
Combination Bottle Acid Measures and Pipettes	3 00

Graduates. 2-oz. 30 cts., 4-oz. 40 cts., 6-oz. 50 cts., 8-oz. 60 cts.



Babcock Test Bottles

10 per cent Milk Bottle	Each \$0 30
30 per cent Cream Bottle	35
40 per cent Cream Bottle	35
50 per cent Cream Bottle	35
Skim Milk Bottle	75



10% Milk Bottle.



Combined Acid Bottle.



30% Cream Bottle.



Fig. 3.

Lactometer, Fig. No. 3. For testing quality of milk. Packed in turned wood boxes. 40 cts.



Fig. No. 5.



Fig. No. 4.



Fig. No. 6.



Fig. No. 1.



Fig. No. 2.

Thermometers

Floating Dairy Thermometer, Fig. No. 2. Packed in turned wooden box \$0 20
Standard Floating Dairy Thermometer, Fig. No. 1. Packed in turned wooden box 50
Flange Dairy Thermometer, Fig. No. 4 15
New Floating Dairy Thermometer, Fig. No. 6. Has both shot and quicksilver 50
Incubator Thermometer, Fig. No. 5. 45
Green Test Tubes. 30 cts. each. If sent by mail, add 5 cts. for postage.

Kow-Kure. To Dairymen

Its business is making unprofitable cows into profitable ones, curing sick cows and making well ones give more and better milk. All we do is to look after the dairy. As you keep cows, you will be interested in our work.

If you have a cow you cannot get with calf we will remove the trouble. A cow that calves before her time we can prevent and cure. Bunches and caked gals we bring back to a healthy condition in one or two days. If some of your cows do not "clean" after calving, our treatment will remove the afterbirth in a few hours and not injure the animal in the least. Scouring in cows and calves we cure in one day. Cows "off feed" and falling off in milk we bring back to a strong appetite where they can produce more than ever before.

Nine years ago a series of experiments were begun to find, if possible, a cure for barrenness (failure to breed), abortion (slinking), retained afterbirth and other diseases of the cow, as well as a tonic and milk promoter. It took 5 years to complete the tests, and if you will read the pamphlet, which we will send free on application, you will see how successful have been the results. 50 cts. and \$1 each.

Blatchford's Calf Meal

Has proved itself one of the best, if not the very best, substitutes for milk for raising calves ever placed before the farmers of this country or Europe. A calf can now be taken off new milk when three or four days old, a porridge made of Blatchford's Calf Meal and skim milk substituted for the new milk diet, and the skim milk can gradually be dispensed with until the calf is feeding on the porridge alone with no milk whatever. This desirable result is obtained because Blatchford's Calf Meal is as nearly as possible new milk in composition. One hundred pounds makes 100 gallons of rich, nutritious gruel.

	Each	20-lb. bags	Each
100-lb. bags	\$3 50	9 "	\$1 00
50 "	2 00	4 "	50
			25

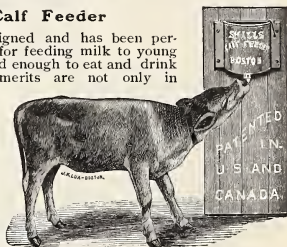
Orange Garget Cure. Is a sure thing for simple garget. Also cures milk fever. 50 cts.

Cow Comfort Oil. Protects cattle and horses from fly pests and vermin. Is the only old and reliable cattle oil on the market. Qt. 25 cts., gal. 75 cts.

American Horse Tonic. Cures that logy look. Put up in separate powders of one dose each. 25 cts.

Small's Calf Feeder

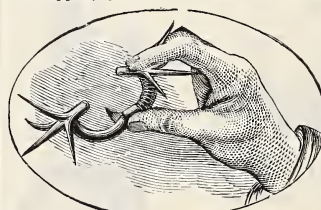
This article was designed and has been perfected by the inventor for feeding milk to young calves before they are old enough to eat and drink otherwise. Its chief merits are not only in its convenience, but in the sleek, thrifty, healthy calves it produces, as they suck their food slowly in a natural way, producing the gastric juices as in nature, and the calf is never stunted or set back as they are when taught to drink, but grow rapidly from the time they are put on the Feeder. \$2; extra nipples, 25 cts.



Schley's Weaner

For calves 1 Each to 4 mos. . . . \$0 35
 old 35
 For calves 4 to 8 mos. old . . 35
 For yearlings . 50
 For cows . . 60

If sent by mail, add 10 cts. for postage.



Schley's Weaner.

Milk Oil Sheep Dip. For lice and ticks, For curing scab, foot rot, sore udders, ulcers, wounds, saddle and collar galls, sores, burns, stings, etc. 1/2 gal. 60 cts., 1 gal. \$1.



Cow Bell.

Ox Balls. 5 sizes. 10c. ea.
Kentucky Cows and Sheep Bells. We always have on hand a variety of bells.



Cattle Cards, Cattle Ties and Horse Halters.



Cattle Card.



Ox Ball.



Ox Nozzle.

Poultry Supplies

Webster & Hannun's Green Bone, Meat and Vegetable Cutter

The Webster & Hannun is the only machine in the world that will cut green bone fine enough for bantams and young chicks without splinters or chunks, or that will cut clear meat without freezing. The highest and only award at the World's Columbian Exposition, Chicago, for green bone cutters was given to the Webster & Hannun Improved Green Bone Cutter.



	Mrs.'s	Our net
Improved No. 2, as represented in cut . . .	\$18 00	\$12 50
No. 4, with fly wheel . . .	10 50	7 00
No. 4, with crank only . . .	7 50	5 25
No. 3, for power . . .	50 00	30 00
No. 6, with fly wheel, for bench . . .	18 00	12 50
No. 6, with fly wheel, on legs . . .	22 50	15 00

Mann's New Bone Cutter

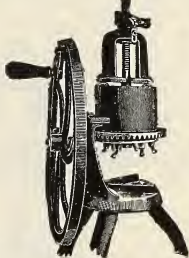
Is the standard of excellence. Every machine warranted to cut dry or green bone, with meat and gristle attached, without clogging or difficulty, or money refunded.

No.	Wgt., lbs.	Price
1 C, with crank handle . . .	30	\$6 00
1 B, with balance wheel . . .	55	8 00
1 B M, with balance wheel mounted on iron stand . . .	80	10 00
4 B, with balance wheel . . .	75	14 00
4 B M, with balance wheel mounted on iron stand . . .	110	17 00
6, Post Bone Cutter . . .	100	16 00
2, Standard Bone Cutter . . .	140	18 40
3, Double hand cutter . . .	180	22 40
10, Small power cutter . . .	175	26 00
14, Large power cutter . . .	425	76 00
Clover cutter, with balance wheel . . .	8 00	
Clover cutter, with balance wheel mounted on iron stand . . .	10 00	
Mortar (perforated, corrugated, cast iron) . . .	35	3 00



Do You Keep Poultry?

Dr. Hess' Poultry Pan-a-c-e-a. Cures diseases and makes hens lay even in the cold weather. 1½ lbs. 25¢, 5 lbs. 60 cts.



Mann's New Bone Cutter.

Do You Raise Stock?

If you do, you want to make money out of it. Feed **Dr. Hess' Stock Food** as directed, and your profits will surprise you. It will make your animals healthier, stronger and better in every way. 7-lb. pkg. 50 cts., 12-lb. bag 75 cts., 25-lb. bag \$1.45.

Rust's Haven's Roup Pills. Box of 50 pills, 25 cts.; box of 100 pills, \$2. Mailed on receipt of price.



Rust's Egg Producer

Hens can't help laying when given Rust's Egg Producer. Those who use it once never want any other. It beats everything because it supplies the chemical constituents of eggs, and it supplies them in proper proportions, thus avoiding all waste, making it the cheapest, as well as the best, egg producer known. Think of it! It costs only from 2 to 3 cents a month for each hen (according to the size of box) to use Egg Producer and get wonderful results. Lb. 25 cts., 2½ lbs. 50 cts., 6 lbs. \$1.

Haven's Climax Condition Powder

Heads off no more! Cure fowl cholera and gapes by using Rust's Haven's Climax Condition Powder. Not only a chicken powder, but the best animal curative and conditioner known. Used everywhere. Three sizes. 25 cts., 50 cts. and \$1.

Bowker's Animal Meal

Something to Make Hens Lay

Introduced in 1873. Hens that are not laying should be made to lay, especially when eggs are high. They will lay if you feed them the right material to make eggs of. Eggs are principally albumen, which is produced by hens from the protein absorbed from their food.



"Better than scraps."

Bowker's Animal Meal is concentrated protein and furnishes a larger percentage of this element than any other similar poultry food. See the analysis by experiment stations for the proof or feed it to your hens and prove it at home.

Bowker's Animal Meal is a thoroughly cooked, hence easily digested, meat and bone food, supplying protein for the egg and bone for the shell. It is very finely ground and is fed with grains and other food in the morning mash. It makes hens lay; it makes chickens grow. Trial bag, enough for ten hens three months, \$1. Four times as much for \$2.25.

Bowker's Egg-Lime Grit is without any question the most satisfactory grit ever offered, for, besides being valuable as a grinder, it supplies lime for the shell in which every well-bred hen should deliver her eggs, thus making it unnecessary to buy oyster shells for lime-furnishing material. It is bright, white, sparkling and catches the eye, and the fowls will pass by all other grit for it. 100 lbs., hen, chicken or pigeon size, \$1. 100 lbs., brooder size (very finely ground), 50 cts.

Bowker's Cracked Bone for Fowls. This is made from carefully selected bone, reduced to about the fineness of cracked corn and is liked very much to feed to laying hens to supply lime. \$2.25 per 100 lbs., \$42 per ton.

Bowker's Ground Beef Scraps. The market is thoroughly searched to find scraps of the very best quality, and these are offered to poultrymen under the celebrated "Bowker" brand. We sell first quality only. \$2.25 per 100 lbs., \$42 per ton.

Bowker's Bone Meal for Cattle. This is made from carefully selected bone, reduced to a meal, white, clean and perfectly sweet. Feed from a tablespoonful to one-half pint at a time, as long as the animal seems to crave for it. Most cows and growing stock will lick it down as they do salt. With some, however, it will be necessary to feed it with grain. \$2.25 per 100 lbs., \$42 per ton.

Bowker's Fish Meal. Prepared from desalted fish, containing the fish and fish bones, steamed and dried and then ground to a fish meal, which some poultry keepers like very much. \$2.25 per 100 lbs., \$40 per ton.

Peerless Ground Oyster Shell. We are headquarters for these goods. 75 cts. per 100 lbs.

Hen Wheat. We have taken great pains to find in Chicago low-priced wheat that would be free from smoke and other objectionable features and that we could sell at a price for hen wheat.

Cut Clover and Clover Meal. We have this constantly in stock. Our cut clover is especially fine.

Crystall Grit. This grit is pure quartz, therefore it is superior to all other grits. It does not dissolve in the crop, never wears smooth, but retains its rough edges. 85 cts. per 100 lbs.

Keep Your Fowls Free From Lice

Dr. Hess' Instant Louse-Killer Kills Lice. Sprinkle in the nests, on the roosts and in the dust-bath. The best and cheapest louse-killer on the market. In 1-pound tins, with perforated top, 25c.

Lambert's Death to Lice. A disinfectant insect powder. A cheap and effective remedy for all kinds of poultry vermin, lice on cattle, swine or plants, fleas on dogs, ticks on sheep, moths, bed, water or squash bugs, roaches, etc. Box 25 cts.

Lee's Liquid Lice Killer. Sure death to all vermin on poultry, hogs and all domestic animals. On evaporating, forms a gas of same weight as air, destructive to all insect life. Contains no kerosene or other diluent. Each gallon is equal to from 2 to 5 gallons of other paints, washes or dips. Qt. 35 cts., 1/2 gal. 60c., 1 gal. \$1.



Drinking Fountains



Hub Drinking Fountain.



Cyphers Drinking Fountain.



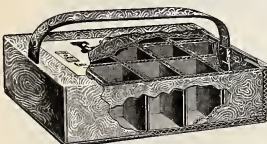
Earthen Drinking Fountain.

Hub Drinking Fountain. For poultry. Made of heavy galvanized iron. Convenient to fill and empty. Keeps water cool and pure. Will not be injured by freezing. Can hang up on the side of the wall or partition. 1/2 gal. size, 40 cts. 1-gal. 50 cts., 2-gal. 70 cts.

Cyphers Drinking Fountains. The Cyphers Galvanized Iron Drinking Fountains embody every good feature of a down-to-date drinking fountain and are believed to be the best in use. 2-qt. 25c., 4-qt. 35 cts., 8-qt. 50 cts.

Earthen Drinking Fountains. 2-qt. 25 cts., 3-qt. 30 cts., 4-qt. 40c.

Egg Cases and Carriers



Eyrie Shipping Egg Box.

embodies the best ideas to date. This tester is equipped with an extra strong reflector, also a good lamp, and will last a lifetime with proper care. No better made or more practical tester has ever been placed on the market. Price of the Cyphers Practical Egg Tester, \$1.

Eyrie Shipping Egg Box. Unquestionably the best box on the market for shipping safely fancy eggs by express. Made of heavy corrugated cardboard, they are very strong, compact, light and convenient. The handle, when put in place, locks the box and it cannot be tampered with in transit. The handle prevents the putting of anything on top of the box and thus prevents rough usage. 1 sitting, 15 cts. each, \$1.50 per doz.; 2 sittings, 20 cts. each, \$2 per doz.

The Cyphers Practical Egg Tester is the standard tester in use on large eastern duck and broiler farms and one that is being used by the best of the breed. It is equipped with an extra strong reflector, also a good lamp, and will last a lifetime with proper care. No better made or more practical tester has ever been placed on the market. Price of the Cyphers Practical Egg Tester, \$1.

H. T. H. & Co.'s Egg Cases. The best egg cases on the market and the most popular one with shippers of eggs.

Price
8 doz. \$0 65
15 doz. 85
30 doz. 1 10
49 doz. 1 20
56 doz. 1 25

H. T. H. & Co.'s Egg Case Fillers.

Price
30 doz. 30
49 doz. 40
56 doz. 50

Reliable Egg Carrier. The only carrier on the market in which you can carry 1 dozen or 12 dozen eggs safely. Has a patent fastening on the cover. Each carrier with a capacity of 12 dozen, complete with fillers, 50 cts.



Deane's Hen's Nests. Made from heavy steel wire and japanned. Put up anywhere. No trouble from vermin. 30 cts. each, \$2.75 per doz.

Incubator and Brooder Lamps used with the Cyphers Incubators and Brooders. They are made of a heavy best grade tin and galvanized iron and are first-class in every respect.

Cyphers Brooder Thermometers. 40 cts.

Cyphers Food and Water Holders (Patented). This undoubtedly is the best device of the kind on the market. They are made in 1-, 2- and 3-gallon sizes and are recommended as both food and water dishes. The tops and bottoms of these holders are separable by placing the palm of the hand on top of the upright post, slipping the fingers under the iron brace that is fastened to the upper metal pan, then pressing downward, causing the wires to separate, thus releasing the lower pan. By this method the lower pans may be quickly filled for use, or, after using, can be cleaned with ease and despatch. To replace the upper part, again press down on the wooden post, which will separate the wires. As the pressure is removed these wires will come together and firmly clasp the wire-bound rim of the pan. The holder may then be carried about with perfect safety, for the greater the weight the tighter the grip of the wires. These wires prevent the chicks or fowls from getting into the pans and soiling the food or water.

Each
Small (half-gallon) \$0 75
Medium (one-gallon) 1 00
Large (two-gallon) 1 25

Leg Bands. The best poultry marker made. Climax Leg Bands have been on the market for years, and their rapidly increasing sales attest their popularity. They are simple, neat and absolutely secure if properly put on. There are no sharp edges or exposed ends of wire and no tools are required. Sizes: No. 1, 1/2-inch; No. 2, 3/4-inch; No. 3, 1-inch; No. 4, 1 1/4-inch; No. 5, 1 1/2-inch.

Price
Per dozen \$0 25
2 dozen 40
50 70
100 1 25

Decker Novelty Leg Bands. For poultry and Climax Leg Band pigeons. We have sizes for all breeds. In ordering please mention breed and how you wish them marked. 25 cts. per doz., 40 cts. for 2 doz., \$1.25 per 100.

Cyphers Food and Water Holder.

Each
Small (half-gallon) \$0 75
Medium (one-gallon) 1 00
Large (two-gallon) 1 25

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100 1 25

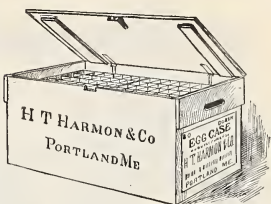
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Prime's Patent Egg Case. The principal point of difference in this egg case is that each division for the egg is round, corresponding to the shape of the egg and thus preventing any breakage. The construction is much stronger and they will last many years.

Price complete
5 doz. \$0 50
8 doz. 60
10 doz. 75
16 doz. 90
30 doz. 1 15
36 doz. 1 30
49 doz. 1 60

Deane's Hen's Nests. Made from heavy steel wire and japanned. Put up anywhere. No trouble from vermin. 30 cts. each, \$2.75 per doz.

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Medium (one-gallon) 1 00
Large (two-gallon) 1 25

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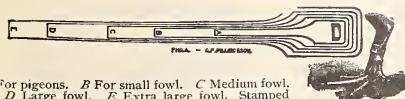
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A For pigeons. B For small fowl. C Medium fowl. D Large fowl. E Extra large fowl. Stamped with any number desired.

Pilling's Leg Bands. Cut shows full sizes. Copper, 1 doz. 20c., 50 60 cts., 100 \$1; aluminum, 1 doz. 25 cts., 50 75 cts., 100 \$1.25.

The Philadelphia Poultry Marker. Do you keep a record of chickens? The different breeds, hatches, etc., should be kept. There is no better or quicker way than by this marker, as over 200 different marks can be made by punching web between toes, for instance—between first and second toe of right foot can mean Wyandotte or Plymouth Rock; between second and third toe, White Leghorn or Langshan, so that hundreds of private marks can be made; not only to keep records, but by your private marks you can secure yourself from the chicken thief. They are well made, with steel spring and cutter, nicely nickel-plated. Made in two sizes. Sent postpaid, on receipt of price, 25 cts.

French Poultry Killing Knife. Every poultry raiser should have one of our killing knives. They are made of finely tempered instrument steel with nickled handle; will last a lifetime. Will be one of the best investments you ever made. Sent postpaid, on receipt of 50 cts. Don't wait! Send for one now! Sent securely packed, by mail, on receipt of price.

Poultry Marker.



Philadelphia Cape Worm Extractor. 25 cts., postpaid. **Caponize.** Poultrymen can double their profits by caponizing their chicks. The operation is very simple—the instructions are so full and explicit that any man, woman or child, after a careful reading, will be able to perform the operation. It is highly successful from every point of view. The demand for Capons far exceeds the supply,—price per pound being twice as much as for ordinary chicks. The object of caponizing is to largely increase the weight of fowls, causing them, in many

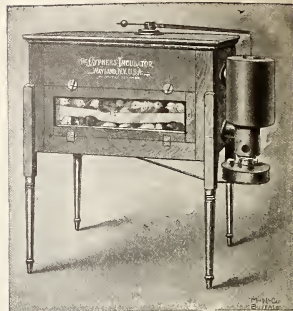


cases to grow as large as turkeys and weigh from 10 to 15 pounds and to make the meat a finer flavor and very juicy and tender. Complete set, \$2.50.

INCUBATORS AND BROODERS

The Cyphers Non-Moisture Incubators and Three-Apartment Brooders

The Cyphers Incubators, for which we are authorized agents, are fully guaranteed by the manufacturer as follows: *First*, to require no supplied moisture. *Second*, to be self-ventilating. *Third*, to be self-regulating. *Fourth*, to operate with less oil and with less expense than any other make of incubator. *Fifth*, to be fire-proof, having the best, the safest and the most costly built heater attached to any incubator. *Sixth*, to be the easiest to operate and control, requiring less labor and attention than any other make of incubator. *Seventh*, to produce larger and stronger chicks than any other make of incubator on the market. *Eighth*, also that where it is run with any incubator of a different make it shall, in three or more hatches, bring out a larger percentage of the fertile eggs in good, healthy chicks or ducklings than does its competitor. If you are in search of the latest patented, most durably built and best practical incubator, one that will hatch the largest number of the strongest and healthiest chicks or ducklings, the Cyphers is that machine. The result is an incubator that is positively self-regulating, self-ventilating and which requires no supplied moisture. Here we have, therefore, the simplest possible incubator, one that is practically perfect in its ease of operation, as all that is required of the attendant is the filling of the lamp and the turning of the eggs. Today the Cyphers Incubator, a practical embodiment of the Cyphers method, stands without an equal. Used by the largest and most successful poultry plants in this country by a majority of the best known fanciers, and by upwards of 10,500 small poultry raisers, it is pronounced by them to be without a rival. (See large 192-page catalogue.)



No.	Price-List of Cyphers Incubators	Each
0, 60 hen eggs, 48 duck eggs	\$14.00
1, 120 " " 100 " "	20.00
2, 220 " " 190 " "	29.00
3, 360 " " 290 " "	37.00

The Unequaled Cyphers Three-Apartment Brooder

Next to its incubator, the Cyphers Company especially prides itself on the Three-Apartment Outdoor Brooder it manufactures. They unhesitatingly guarantee this to be the best brooding device on the market for either indoor or outdoor use, regardless of price, and it will be noted that all of the Cyphers Brooders (the company manufactures one grade only, but four sizes) are sold at reasonable prices.



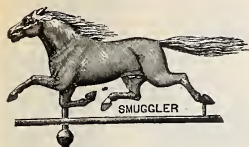
Cyphers Outdoor Brooder (Front view).

Price-List of Cyphers Indoor and Outdoor Brooders

Style	Each
O, indoor \$8.00
O, outdoor 9.00
B, indoor 10.00
A, outdoor (see illustration) 12.00

Special Advantages in Buying of Us. First, we sell to you at factory prices. Second, we save you valuable time by carrying a large line of Cyphers Incubators and Brooders in stock, thus insuring you quick delivery, the saving in time amounting to perhaps two or three weeks. Third, we save you freight to Portland, Maine. This is highly important. The Cyphers goods are constantly on display at our place of business, and we invite a personal call, if convenient. All told, it is plainly to your advantage to place your order with us. We guarantee fair treatment and prompt service in all particulars.

Circulars and Catalogues. Large 32-page Cyphers circulars sent free on request. Complete catalogue and poultryman's guide, entitled "Profitable Poultry Keeping in All Its Branches," 192 pages, 8x11 inches in size, with nearly 200 fine illustrations, treating at length of egg-farming, broiler raising, duck-growing, roaster or winter chicken production, capons and caponizing, breeding standard poultry, etc.; also illustrating and describing over fifty of America's largest, best known and most successful poultry plants, will be sent postpaid for 10 cents in stamps, which exactly covers postage. The book is free. It is easily worth \$2 or \$3 to persons interested in making poultry pay.

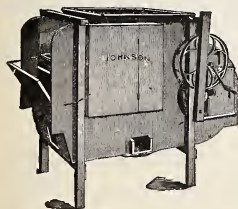


Weather Vanes

All of our Vanes are made of copper, and gilded with 23 karat gold leaf that will remain bright for years. The prices of these Vanes include iron spire with steel spindle, points of the compass, copper balls, gilt letters. Send for complete catalogue of Weather Vanes. Write for special price-list.

Johnson Fan Mill

The Fan Mill is indispensable to a well-regulated grain barn. This mill runs the sound, clean grain to one side of the mill, while the sand and small seeds pass out at the other, and the heavy chaff and heads are caught in a receptacle behind the machine. It will not only clean grain, but also grass seeds in the best manner. \$16.



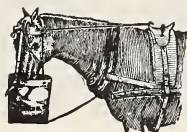
Fan Mill.



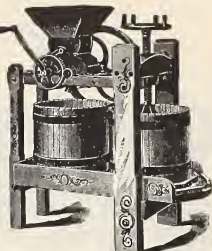
Pump.

Feed Bags

Whitaker's Patent Feed Bags	Each \$0 75
B. O. Feed Bags	65
Williams' Folding Feed Bags	85
Pioneer Feed Bags	65



Feed Bag.



Cider Mill.

Corn Knives. Net price, 35 cts.

Pumps

Our No. 1 Banded Pump is the most durable Wood Pump on the market. Heavy wrought iron bands are placed above and below the spout hole, and drawn tight by means of set screw in each band, thus preventing checking, and making a pump of great durability. Made either with or without lining. Size 6 x 6 inches square.

Rubber Bucket Chain Pump. They are one of the best and cheapest pumps. We keep always in stock curbs, chain, rubber buckets and wood tubing. Write for prices.



Corn Knife.



Corner Feed Mangers. With heavy rolled guard 15 x 15. Net price, \$1.25.

Corner Hay Racks. Cast-iron corner hay rack; net price, \$1.15. Cast-iron top and bottom, wrought iron rods. \$1.50.



THE BEST AND NEWEST RURAL BOOKS

The Horticulturist's Rule-Book

A Compendium of Useful Information for Fruit-Growers, Truck-Gardeners, Florists and others. By L. H. Bailey, Professor of Horticulture in the Cornell University.

Fourth Edition—312 Pages—75 cts.

A vast mass of information is presented in this handy little reference book, arranged so carefully and indexed so completely that instant reference may be made to any one of the two thousand entries. The things you want to know about horticultural work, the remedy for a plant disease, the way to conquer a troublesome insect enemy—all are concisely set forth. It is a collection of verified and digested facts, in compact form, easy of reference and comprehensive in range. Now in its fourth edition, the book has become a standard reference work.

The Horticulturist's Rule-Book presents information upon such matters as recipes for insecticides and fungicides, descriptions (with remedies) of insects and diseases, weeds, lawns, grafting-waxes, seed and planting-tables, tables of yields, rules for greenhouse heating and management, with figures, methods of storing produce, tariff and postal rates, rules of societies for naming and exhibiting specimens, score-cards and scales of points, analyses of fertilizing substances, lists of current horticultural books and journals.

See second page of cover for other Rural Books.

The Practical Garden-Book

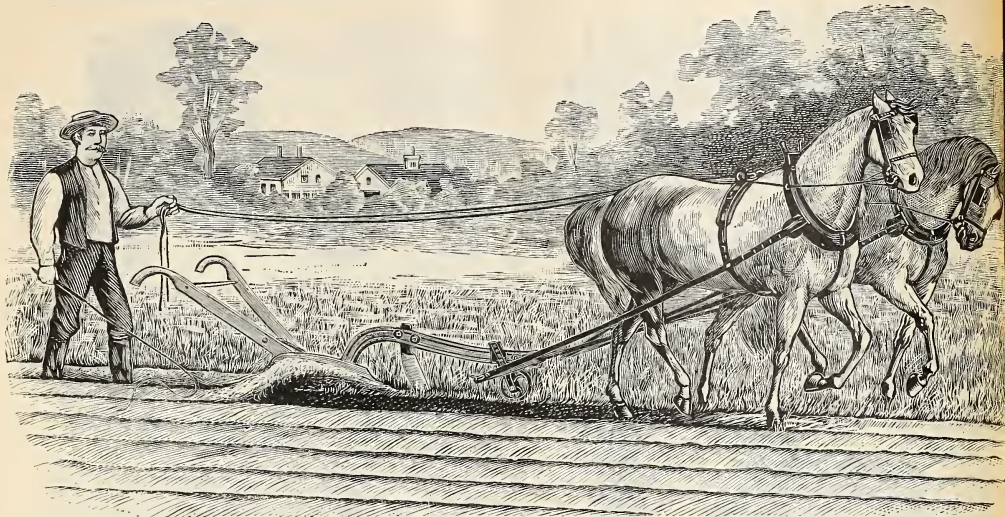
Containing the Simplest Directions for the Growing of the Commonest Things About the House and Garden. By C. E. Hunn, Gardener to the Horticultural Department of Cornell University, and L. H. Bailey.

250 Pages—Many Marginal Cuts—\$1

Illustrated by many marginal "thumbnail" cuts. This is the latest issue of the Garden-Craft series. It is the book for the busy man or woman who wants the most direct practical information as to just how to plant, prune, train, and to care for all the common flowers, fruits, vegetables, ornamental bushes and trees. It has articles on the making of lawns, borders, spraying, fertilizers, manures, lists of plants for particular purposes, hotbeds, window-gardening, etc. It is all arranged alphabetically, like a miniature cyclopedia. It does not contain a bit of theory or of fine writing, but is designed for those who have no time to go into the whys and wherefores, and who want directions as to how to grow plants.

The Principles of Fruit-Growing

By L. H. Bailey, Professor of Horticulture in the Cornell University. (See 2d page cover for full description.)



THE PLOW OF TODAY

The Isaiah Frye Ideal Steel Beam Plows **UNSURPASSED BY ANY PLOW ON THE MARKET**

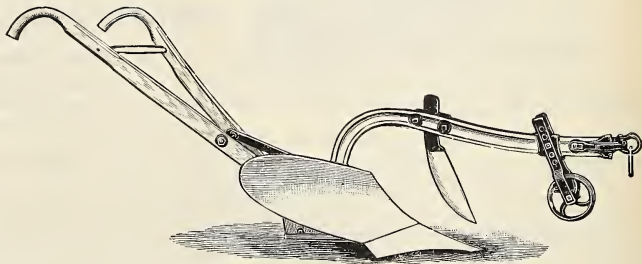
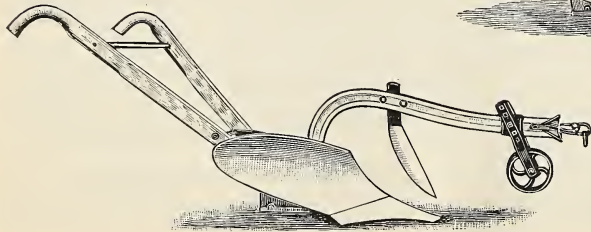
These Plows have been constructed with special reference to obtaining the greatest strength with the lightest draft. No stronger or lighter Plows of equal capacity are made in the United States.

The extra long mouldboards, with a gradual turn, throw the furrow flat without breaking, also lessen the draft about one-third. The wide point and long landside, with wide false-shoe, gives the plow a firm bottom, which enables it to go in smooth work without holding. Our motto: Easy work for man and beast.

The jointers are made of solid steel, and, by being reversible, last twice as long. They are only furnished on plows when so ordered, the price being no more than with the straight cutter. One extra point supplied with each plow.

No. 48. Steel Beam Plow

Size, light two-horse. Capacity, 5 to 7 inches deep, 12 to 14 inches wide. Price, \$15.

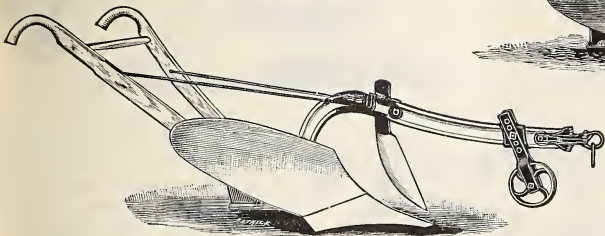


No. 55. Steel Beam Plow

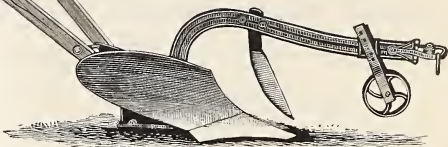
Size, medium two-horse. Capacity, 6 to 8 inches deep, 14 to 16 inches wide. Price, \$16.

No. 65. Steel Beam Plow

Size, two- or three-horse. Capacity, 7 to 9 inches deep, 16 to 18 inches wide. Price, \$18.

**No. 70. Steel Beam Plow**

Size, heavy four-horse. Capacity, 8 to 10 inches deep, 18 to 20 inches wide. Price, \$20.

**The Isaiah Frye Steel Beam Plows****PRICE-LIST OF EXTRA PARTS**

	No. 48	No. 50-55	No. 60-65	No. 70
Moldboards	\$3 25	\$3 50	\$4 00	\$5 50
Landslides	1 50	1 50	1 50	2 00
Headers	1 25	1 25	1 25	1 25
Beams	3 25	3 50	3 50	4 00
Points	50	50	50	70
Shoes	50	50	50	50
Cutters	1 25	1 50	1 50	1 50
Jointers	1 50	1 50	1 50	1 50
Jointer standards	65	85	85	85
Jointer steels	75	75	75	75

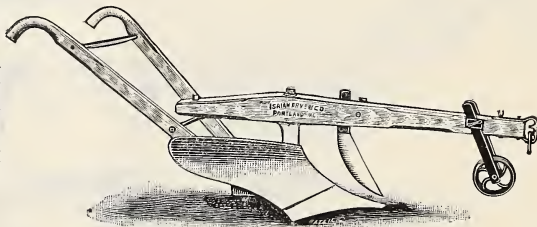
	No. 48	No. 50-55	No. 60-65	No. 70
Cutter jointer clasp	\$0 40	\$0 40	\$0 40	\$0 40
Wheels, plain	40	40	40	40
Wheels, complete	1 00	1 00	1 00	1 00
Wheel straps, each	30	30	30	30
Three-horse clevis, complete	85	85	85	85
Three-horse clevis, plain	75	75	75	75
Two-horse clevis, complete	60	60	60	60
Two-horse clevis, plain	50	50	50	50
Handles, per pair	1 30	1 30	1 30	1 50
Steel points	2 50	2 50	2 50	3 00

MISCELLANEOUS PARTS

Beam ends	\$0 40	End clevis	\$0 15	Malleable wrenches	\$0 15
Bolts	04	Handle rounds	05	Wheel strap buttons, per pair	30
Clevis links	10	Malleable washers	05		

The Isaiah Frye Wood Beam Steel Plows

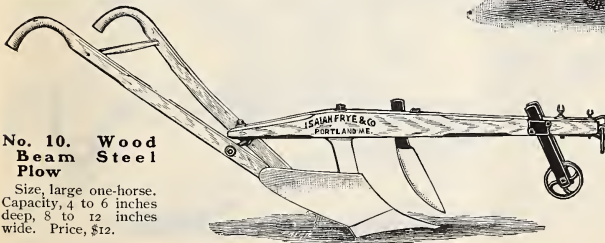
The Isaiah Frye Wood Beam Steel Plows are made of the best steel, white and red oak and are put together by experienced workmen. They have a curved standard, which does not clog and enables the user to land the plow according to the team in use, either two or three horses abreast, always drawing from the center, doing away with all side draft and holding with perfect ease. The moldboards are long and high, with a perfect turn. The long landsides and wide points give these plows a good bottom, making them set up square.

**No. 20. Wood Beam Steel Plow**

Size, small two-horse. Capacity, 5 to 7 inches deep, 10 to 15 inches wide. Price, \$14.

No. 10. Wood Beam Steel Plow

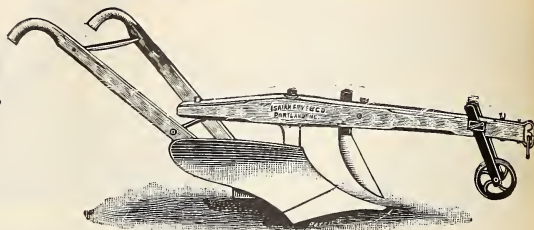
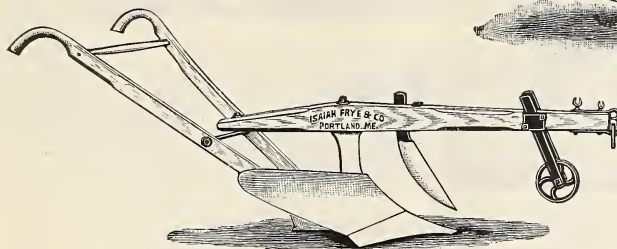
Size, large one-horse. Capacity, 4 to 6 inches deep, 8 to 12 inches wide. Price, \$12.



The Isaiah Frye Wood Beam Steel Plows

No. 30. Wood Beam Steel Plow

Size, medium two-horse. Capacity, 6 to 8 inches deep, 14 to 16 inches wide. Price, \$16.

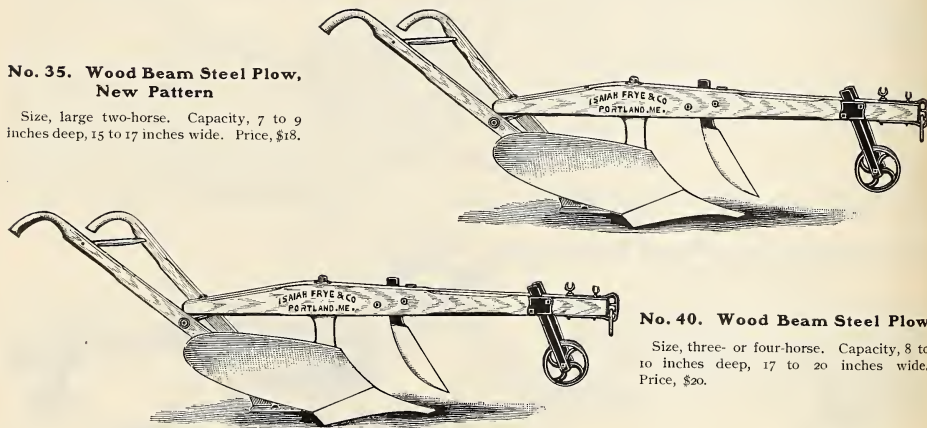


No. 25. Wood Beam Steel Plow, New Pattern

Size, medium two-horse. Capacity, 6 to 8 inches deep, 14 to 16 inches wide. Price, \$16.

No. 35. Wood Beam Steel Plow, New Pattern

Size, large two-horse. Capacity, 7 to 9 inches deep, 15 to 17 inches wide. Price, \$18.

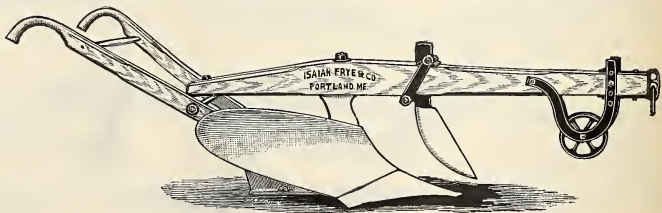


No. 40. Wood Beam Steel Plow

Size, three- or four-horse. Capacity, 8 to 10 inches deep, 17 to 20 inches wide. Price, \$20.

No. 45. Wood Beam Steel Plow

Size, six-horse. Capacity, 10 to 12 inches deep, 20 to 24 inches wide. Price, \$22.



Price-List of Extra Parts of the Isaiah Wood Beam Steel Plow

	No. 10	No. 20	No. 25	No. 30	No. 35	No. 40	No. 45		No. 10	No. 20	No. 25	No. 30	No. 35	No. 40	No. 45
Moldboards . . .	\$2 75	\$3 00	\$3 00	\$3 00	\$4 00	\$4 00	\$5 00	Cutters	\$1 25	\$1 25	\$1 25	\$1 50	\$1 50	\$1 50	\$1 75
Landsides . . .	1 25	1 50	1 50	1 50	1 50	1 50	2 00	Cutter clasps	40	40	40	40	40	40	1 00
Standards . . .	1 75	2 25	2 25	2 25	2 25	2 25	2 50	Points	50	50	50	50	50	50	75
Wood beams . . .	1 50	1 50	1 50	1 50	1 65	1 75	2 00	Shoes	50	50	50	50	50	50	60
Handles per pair .	1 10	1 30	1 30	1 30	1 30	1 30	1 50	Clevises	50	60	60	60	60	60	1 00
Steel points . . .		2 50	2 50	2 50	3 00	3 00	3 50	Wheels	40	40	40	40	40	40	40

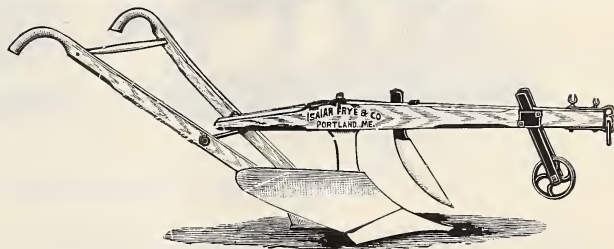
MISCELLANEOUS PARTS

	Each		Each		Each
Chafe iron	\$0 15	Plow rods, 17½ x ¾	\$0 50	Plow rod hooks	\$0 10
Clevis link	10	Plow rods, 18 x ¾	50	Wheel straps, complete, per pair . . .	60
Clevis pin	10	Plow rods, 17 x ¾	50	Wheel strap buttons, per pair . . .	30
Handle rounds	05				

Isaiah Frye Wood Beam Chilled Plows

These Plows are made similar to the Steel Plows. The moldboard is bolted to the standard instead of both being cast in one piece. If one is broken it is not necessary to buy both to make the plow good. These Chilled Plows have curved standards, shifting beams and draw from the center. Steel points, moldboards and landside will fit, giving the user the privilege of having a steel plow any time he chooses.

No. 0. Small one-horse. Capacity, Each furlowing	\$8 00
No. 10. Medium one-horse. Capac- ity, 4 to 6 in. deep, 4 to 10 in. wide .	10 00
No. 20. Small two-horse. Capacity, 5 to 7 in. deep, 13 to 15 in. wide . .	12 00
No. 30. Medium two-horse. Capacity, 6 to 8 in. deep, 14 to 16 in. wide . .	13 00



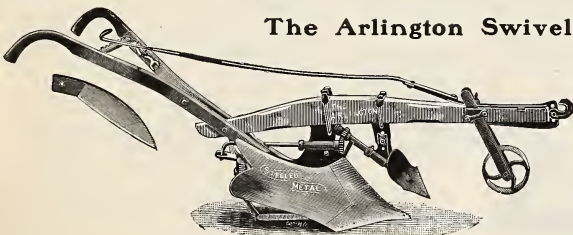
Price-List of Extra Parts

	No. 0	No. 10	No. 20	No. 30		No. 0	No. 10	No. 20	No. 30
Moldboards	\$1 25	\$1 75	\$2 00	\$2 25	Cutters	\$1 00	\$1 25	\$1 25	\$1 25
Landsides	75	85	1 00	1 10	Cutter clasps	40	40	40	40
Standards	1 50	1 75	2 25	2 25	Handles per pair . . .	1 25	1 25	1 30	1 30
Points	40	50	50	50	Wheels	40	40	40	40
Beams	1 50	1 50	1 50	1 50	Clevises	50	60	60	60

MISCELLANEOUS PARTS

	Each		Each		Each
Clevis pin	\$0 10	Plow rods, 17½ x ¾	\$0 50	Plow rod hooks	\$0 10
Clevis link	10	Plow rods, 18 x ¾	50	Wheel straps, complete, per pair . . .	60
Chafe iron	15	Plow rods, 17 x ¾	50	Wheel strap buttons, per pair . . .	30
Handle round	05				

The Arlington Swivel Plow



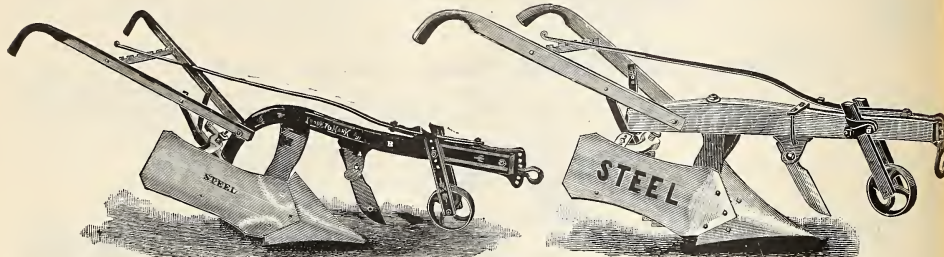
No. 27. Small one-horse. Capacity, 4 to 6 in. deep, 8 to 11 in. wide	\$10 00
No. 29. Medium two-horse. Capacity, 5 to 7 in. deep, 12 to 14 in. wide	14 00
No. 30. Large two-horse. Capacity, 6 to 8 in. deep, 13 to 16 in. wide	15 00

Price-List of Extra Parts

	No. 27	No. 29	No. 30		No. 27	No. 29	No. 30		No. 27	No. 29	No. 30
Points	\$0 40	\$0 60	\$0 70	Steel coulters	\$0 75	\$1 10	\$1 10	Clevises, complete. . . .	\$1 00	\$1 00	\$1 00
Moldboard	1 50	2 60	3 00	Handles, complete . . .	1 50	1 70	1 70	Wheels	40	40	40
Standards	1 25	2 00	2 25	Beams	1 25	1 60	1 60	Foot-latch	30	40	40
Shoes	35	50	50	Clevises, plain	80	80	80	Steel jointed shaft . . .	60	60	60
Y Braces	30	35	35					Steel jointed shifter . . .	40	40	40

The Arlington Swivel Plow—Miscellaneous Repairs

Each	Each	Each			
Rolling coulter, steel, with arbors and washers	\$1 50	Jointed coulter socket, with beam clasp	\$0 50	Set rings for jointer shaft	\$0 15
Upper or beam shank, Y21	20	Key and clasp for coulter	40	Set rings for jointer shifter	15
Swivel socket, Y22	25	Wheel ears, per pair	20	Gear on jointer shaft	15
Swivel arm, Y18	60	Wheel standards, per pair	40	Gear on jointer shifter	15
Beam clasp, complete	30	Wheel arbor	10	Upper jointer shank and beam clasp	55
Jointed coulter	1 00	Foot-latch crosspiece	20	Lower jointer shank	25
		Steel spring for foot-latch	10	Malleable clevis and shifting lever	1 50
		Jointer blade, steeled metal	40		



76 Steel Beam Swivel Plow.

76 Swivel Plow.

The "76" Swivel Plows

We are the agents for the genuine "76" Plows, which have been handled for years by George Tyler & Co., Boston, Mass., who have now gone out of business, and we have recently made arrangements to take the general trade in this section on "76" Plows handled by them.

For twenty years the "76" Plow has been made and held the lead as a swivel plow. It is made with steel or hard metal moldboard, shifting clevis and automatic latch. Either rolling coulter, jointer, straight or jointed cutter is furnished as desired. The handles are straight, and are adjustable up or down to accommodate a short or tall person. Connecting the handles to the plow in this way makes the plow hold a great deal easier and steadier.

Sizes	Capacity	Plain	With Wheel	With Wheel and Cutter	With Rolling Coulter
76 A Wood Beam Steel Moldboard Plow	Large two-horse, 6 to 7 in. deep, 14 to 16 in. wide	\$14 50	\$15 50	\$17 00	\$19 00
76 B Wood Beam Steel Moldboard Plow	Medium two-horse, 5 to 6 in. deep, 12 to 14 in. wide	13 50	14 50	16 00	18 00
76 C Wood Beam Steel Moldboard Plow	One-horse, 4 in. deep, 10 in. wide	9 50	10 50	11 50	16 00
76 A Wood Beam Hard Metal Moldboard Plow	Large two-horse, 6 to 7 in. deep, 14 to 16 in. wide	12 50	13 50	15 00	17 00
76 B Wood Beam Hard Metal Moldboard Plow	Medium two-horse, 5 to 6 in. deep, 12 to 14 in. wide	11 50	12 50	14 00	16 00
76 C Wood Beam Hard Metal Moldboard Plow	One-horse, 4 in. deep, 10 in. wide	8 50	9 50	10 50	15 00

76 A and B plows made with steel beams, \$2 extra.

Price-List of Extra Parts of the "76" Swivel Plow

76 A-S	76 B-S	76 C-S	76 A-HM	76 B-HM	76 C-HM	76 A-S	76 B-S	76 C-S	76 A-HM	76 B-HM	76 C-HM
Moldboards	\$4 50	\$4 50	\$3 25	\$2 00	\$1 75	Wheel, plain	\$0 40	\$0 40	\$0 35	\$0 40	\$0 35
Standards	1 75	1 50	1 25	1 75	1 50	Frames, per pair	50	50	40	50	40
Shoe	50	50	35	50	35	Cutter, straight	1 00	1 00	85	1 00	85
Point	65	60	45	65	60	Beam, wood	1 33	1 30	1 00	1 30	1 00
Subpoint	50	50	45	50	45	Arm, for latch	40	40	40	40	40
Crotch brace	75	75	45	45	40	Left hook, for arm	10	10	10	10	10
Steel lever	80	80	70	80	70	Right hook, for arm	10	10	10	10	10
Handle support	90	90	75	90	75	Long part of crotch	40	40			
Shifting clevis	60	60	35	60	35	Short part of crotch	25	25			
Wheel, complete	1 25	1 25	1 10	1 25	1 10						

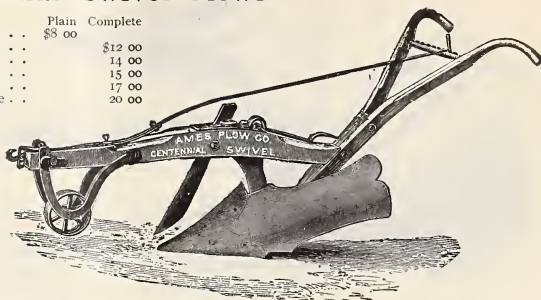
MISCELLANEOUS REPAIRS

Shoe, wide, for meadow use	\$0 75	Rolling coulter, complete	\$2 50	Draft hook or link	\$0 20
Point, steel-edged	2 00	Standard for steel 76 A	2 00	Wheel frame clamps, pair, wood beam	30
Handle support for steel beam	90	Standard for steel 76 B	1 50	Wheel frame clamps, pair, steel beam	30
Foot-latch, complete	90	Hinged cutter, complete	1 90	Cutter clasp, Mall, all sizes	25
Foot-latch, spring	15	Hinged cutter, blade	50	Cutter key, Mall, all sizes	25
Foot-latch, washer	05	Hinged cutter-holder, wood	70	Handles, per pair, old or new	1 00
Jointer complete	1 50	Hinged cutter-holder, steel	1 00	Latch lugs, 5 and 6 on steel moldboard, per pair	40
Jointer socket	90	Crotch brace rod	25		
Jointer point	50	Notched handle rod	30		

Centennial Swivel Plows

Sizes	Capacity	Plain	Complete
12, Medium 1-horse.	3-4 inches deep, 8-9 inches wide . . .	\$8 00	
13, Heavy 1-horse.	4-5 inches deep, 9-10 inches wide . . .		\$12 00
14, Light 2-horse.	4-6 inches deep, 10-12 inches wide . . .		14 00
2, Medium 2-horse.	5-7 inches deep, 12-14 inches wide . . .		15 00
3, Heavy 2-horse.	6-8 inches deep, 13-15 inches wide . . .		17 00
4, 4-horse.	8-10 inches deep, 14-16 inches wide . . .		20 00

These Plows have been awarded more premiums at the New England society field trials the past six years than all other kinds together. The objects which have been in view in producing these plows and which are conspicuous in their construction have been accomplished beyond a doubt, as has been proved by the many thousands which have been sold.



Price-List of Extra Parts

	No. 12	No. 13	No. 14	No. 2	No. 3	No. 4		No. 12	No. 13	No. 14	No. 2	No. 3	No. 4
Moldboard	\$2 25	\$2 35	\$2 40	\$2 50	\$3 00	\$3 50	Point	\$0 40	\$0 45	\$0 50	\$0 55	\$0 65	\$0 90
Standard and shoe	1 50	1 75	2 00	2 25	2 50	3 25	Beam	1 25	1 40	1 50	1 50	1 75	2 25
Shoe	35	35	40	40	45	55	Handles, per pair	1 10	1 30	1 30	1 30	1 30	1 50
Dog	35	35	45	50	50	55							

MISCELLANEOUS REPAIRS

Dog hook	\$0 25	Clevis head W	\$0 65	Cutter lever	\$0 60
Mold hook	40	Clevis lever	60	Cutter beam plate	20
Foot-latch	40	Wheel, complete	1 00	Clevis hook, Z	25
Foot-latch spring	15	Wheel only	40	Handle brace, Y	50
Foot-latch standard	50	Cutter, steel	1 50		

Improved Eagle Chilled Plows

Price-List

Sizes	Plain	With wheel	With wheel and cutter
40, Light 1-horse	\$4 25	\$5 25	
41, Medium 1-horse	4 75	5 75	
45, Large 1-horse	5 25	6 25	\$7 50
46, Medium 2-horse	6 50	7 50	9 00
47, Large 2-horse	8 50	9 50	11 00
T3, 3-horse	11 25	12 50	14 00

Price-List of Extra Parts

	No. 40	No. 41	No. 42	No. 45	No. 46	No. 47	No. T3	No. 0	No. 00	No. B1	No. A2
Moldboard	\$1 25	\$1 35	\$1 75	\$1 50	\$2 00	\$2 25	\$3 00	\$1 25	\$1 50	\$2 00	\$2 50
Landside	40	50	50	60	65	85	1 00				
Point	25	30	75	45	45	45	50	30	40	50	75
Beams	1 25	1 25	1 25	1 50	1 50	1 75	1 25	1 25	1 50	1 50	1 75
Handles, per pair	1 10	1 10	1 10	1 10	1 30	1 30	1 30	1 10	1 10	1 30	1 30
Dog								35	40	50	50
Standards								1 00	1 50	1 75	2 50

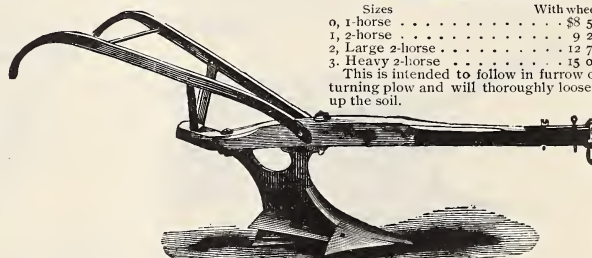
MISCELLANEOUS REPAIRS FOR EAGLE CHILLED PLOWS

Clevis, 1-horse	\$0 35
Clevis, 2-horse	40
Clevis, 3- and 4-horse	50
Clevis-link	10
Wheel, complete	1 00
Wheel	40
Handle round	10
Handle rod	15
Handle brace	50
Dog hook	25
Moldboard hook	40
Cutter, steel	1 25

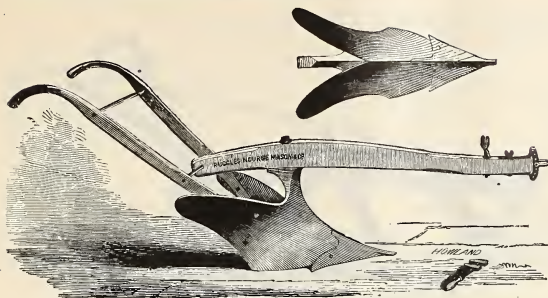
Subsoil Plow

Sizes	With wheel
0, 1-horse	\$8 50
1, 2-horse	9 25
2, Large 2-horse	12 75
3, Heavy 2-horse	15 00

This is intended to follow in furrow of turning plow and will thoroughly loosen up the soil.



Subsoil Plow.



Double Moldboard Plow.

Double Moldboard Plow

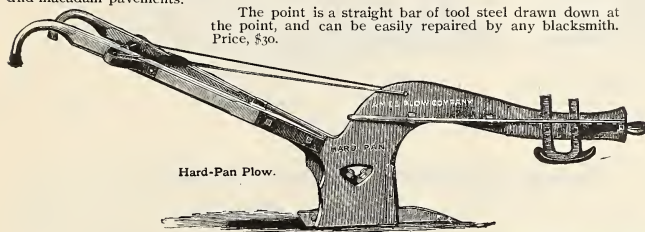
Size	Plain	With wheel
1½, light one-horse	\$4 50	\$5 50
1½, medium one-horse	5 50	6 50
2, light two-horse	6 50	7 50

Used for opening drills, will plant potatoes and corn plowing out between narrow rows, doing work of two plows as it throws the dirt both ways.

Hard Pan and Cobblestone Plow

It has been recently perfected for special use of contractors in tearing up cobblestones and macadam pavements.

The point is a straight bar of tool steel drawn down at the point, and can be easily repaired by any blacksmith. Price, \$30.



Hard-Pan Plow.

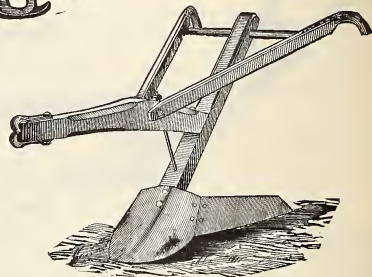


Contractors' Road Plow

Price, \$30.

Shovel Plow

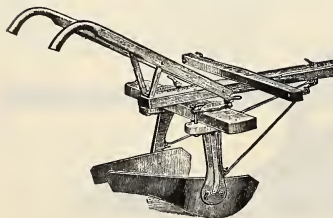
This makes a very light and strong tool for furrowing, covering, and hilling. It has steel wings and point. The wearing parts are easily replaced at small cost. Price, \$3.50.



Shovel Plow.

Isaiah Frye New Model Steel Horse Hoe

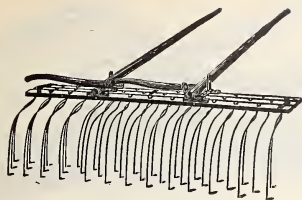
The simplest, strongest, lightest and best made Horse Hoe on the market. The frame is made of red and white oak, the wings are polished steel. It can be readily changed to furrow, cover, or hoe. Price, \$7.



Horse Hoe.

Price-List of Extra Parts

Bolt	\$0 04
Bolt and thumb nut	08
Clamp	15
Cross bar	50
Draft rod	25
Draft rod hook	15
Evener	35
Handles, each	40
Handle brace	50
Handle round	05
Pads, per pair	40
Pole	1 25
Standard	75
Whiffletree hooks, per pair	35
Wings, steel, each	2 90
Wrench	60



Standard Weeder

The Standard Weeder is made up in three sections. The outside sections are removable, leaving the center section for garden and other light work.

The teeth are the best quality of spring steel, oil tempered and thoroughly tested. They have a special form, and are attached to three separate cross bars in a position to thoroughly cover the ground. They are uniform in length and interchangeable.

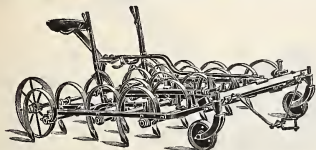
The shafts and handles are adjustable. Useful, practical. Length, $7\frac{1}{2}$ feet. Price, \$7.



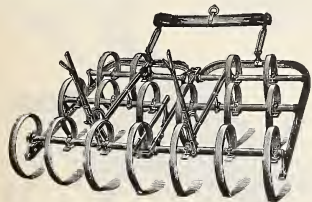
Keystone Weeder

Adjustable Weeder and Shallow Cultivator. It keeps top of the ground loose and moist. Price, \$8.

The Excelsior Riding Harrow



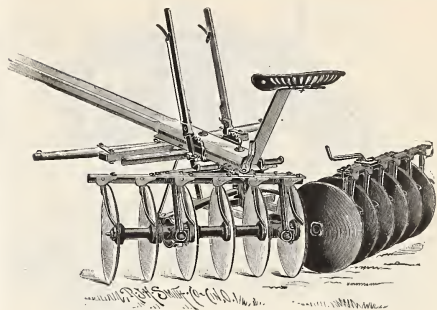
The riding attachment is entirely independent of the harrow, and supports it when in operation. It differs from other constructions, in that the harrow is not required to drag or support the riding attachment. This feature is prominent in our tool, and without it no riding harrow can be made entirely successful. The construction of the riding attachment is such that it is impossible to upset the harrow or scrape up the ground when turning it around. Price, 15-tooth, \$16; 17-tooth, \$17.



Aberdeen Harrow

15 Teeth

We have embodied in the Aberdeen Harrow a form of construction which makes it the most rigid, the strongest, the most easily adjusted, the most simple, most durable, and the best Spring Tooth Harrow of the "runner" type that has yet been offered. Price, \$15.



Model B Disc Harrow

Flexible pivot. By pivoting the disc gang back or center, and using our New Patented Flexible Pivot, the gangs when tilted crowd together, leaving practically no ridge in center and doing away with the unwieldy, overlapping discs and rear tooth or leveler, with which all other makes of Disc Harrows are provided. Box and bearing are fitted with steel balls running against chilled surface to take end thrust of disc gang. Box is cast solid in one piece and chilled on inside, and is provided with dirt-proof oil cups leading into an oil chamber, which effectually lubricates the bearings at all times. Ends of bearings are protected by dust bands $\frac{1}{2}$ inch long at each end. Price, complete, 12- to 16-inch, \$21; 14- to 20-inch, \$24.



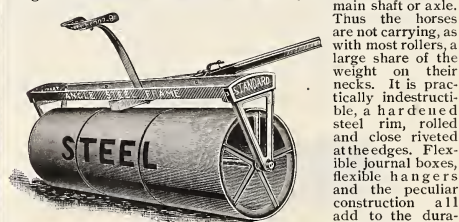
Badger One-Horse Harrow

9 Teeth

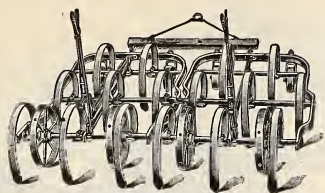
An unusually attractive tool. It has a very strong frame, tooth-holders of the most approved design. Finest adjusting lever ever used, renewable shoes under frame. Price, \$8.

Standard Land Roller

It does the most effective clod crushing and leveling. The entire weight of the machine, from driver to neck yoke, is balanced on the main shaft or axle.

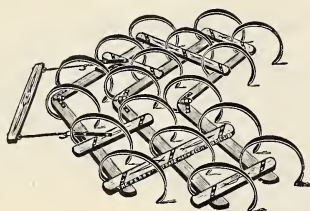


Thus the horses are not carrying, as with most rollers, a large share of the weight on their necks. It is practically indestructible, a hardened steel rim, rolled and close riveted at the edges. Flexible journal boxes, flexible hangers and the peculiar construction all add to the durability. It has a substantial steel weight box. By this means the rolling weight can be increased to the draft capacity of any ordinary team, or it may be availed of as a most convenient way for clearing fields of loose stone. Price, \$22.



Reed Wheel Lever Harrow

The rear wheels are built with steel rim and spokes, with oval surface on inside of rims; are light and attractive in appearance and extremely strong. The front wheels are made in castor form, mounted in pivot sockets. The object is to allow the harrow to easily follow the course of the team when turning at the end of the field or for transportation. Price, 16-tooth, \$16; 18-tooth, \$17.



The Original Perry Harrow

The Wood Frame Perry Harrow is the most durable of spring tooth harrows; the teeth cannot get loose; no levers and joints to wear and get out of repair. Price, 16-tooth, \$10; 18-tooth, \$11.



Common A Harrow

Four sizes: 7-tooth, 13-tooth, 15-tooth, 17-tooth.

Steel Slusser Scraper, with Shoes

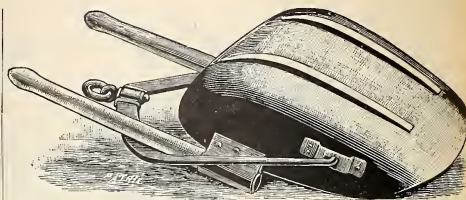
The top of the back is bent over, forming a bead which adds strength to the back and serves as a brace to the sides of the scraper.

No.	Capacity	Weight	Price
1	7 cubic feet	90 lbs.	\$6 00
2	5 cubic feet	80 lbs.	5 50
3	3½ cubic feet	75 lbs.	5 00



Thomas Smoothing Harrow

Can be furnished in two and three sections. Price, 2-section, \$9; 3-section, \$10.



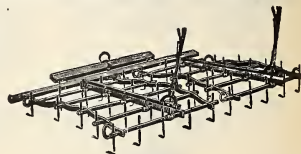
Steel Columbia Road Scraper, with Shoes

These Scrapers are made from heavy plates of specially hardened steel, and are stamped in one sheet without joint, seam or rivet. Owing to the sharp-rounded nose, they will enter the ground more readily than iron, and are always sharp.

No.	Capacity	Weight	Price
1	7 cubic feet	91 lbs.	\$8 00
2	5 cubic feet	86 lbs.	7 00
3	3½ cubic feet	75 lbs.	6 00

Crescent Spike Tooth Lever Harrow

Frame bars are of "1" steel, and are protected by steel shoes when drawing harrow from field to field. Tooth bars are of two sections of openhearted Crescent steel, set facing each other, between which the teeth are held by two bolts, one on each side of teeth. The teeth are special High Carbon Steel of finest quality, and are adjustable for wear, a point of which will be found in few other Spike Tooth Harrows. Price, \$10.



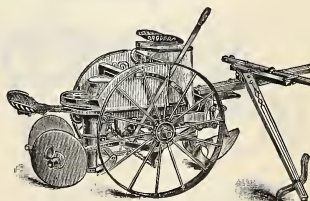
Root and Brush Puller



Size	Price
2-prong	\$4 50
3-prong	5 50
4-prong	6 50

The Improved-Robbins Potato Planter

	Price
With fertilizer distributor	\$75 00
Without fertilizer distributor	64 00
Pea sower attachment	5 00
Leveler attachment	1 00



It must be quality as well as quantity. With the Improved-Robbins, however, the farmer has the comfortable assurance of attaining both, easily planting with it from four to seven acres per day, and such perfection of potato planting was never before accomplished. It is simply ideal.

"Planet Jr." Farm and Garden Tools

ALL GOODS GUARANTEED TO GIVE SATISFACTION, OR NO SALE

No. 4 Combined Hill and Drill Seeder and Wheel Hoe Cultivator, Rake and Plow

Price, \$12. Drill only,
\$8.50



The "Planet Jr." No. 4 Combined Hill Dropping Seeder and Single Wheel Hoe.

Its work as a seeder is marvelous. It sows in continuous rows with the greatest uniformity, or drops with accuracy in hills 4, 6, 8, 12 or 24 inches apart. It is automatically thrown out of gear by simply raising the handles. For use as a cultivator, the drill parts are entirely removed and the tool frame substituted by taking out a single bolt, making it a perfect single wheel hoe, with an unequaled variety of tools and a rapid-change frame, all in the most convenient possible form.

No. 12 Double Wheel Hoe

Prices from \$4.75 to \$9.50



"Planet Jr." No. 12 Double Wheel Hoe, Cultivator and Plow.

Will be pleased to send descriptive catalogue, upon application, of kinds of work for which this tool is adapted. This hoe is fitted with hoes, plows, cultivator teeth and leaf-guards.

Horse Hoe and Cultivator

Prices, \$5 to \$10.50



"Planet Jr." No. 8 Horse Hoe.

The patent frame is made of stiff steel, is extra long and 1 to 2 inches higher than other makes, besides being our patent design, by means of which the standards are interchangeable. Our Horse Hoe and Cultivator frames can all be closed to 9 inches and opened to 25 inches. The patent standards are of hollow steel, of the strongest pattern, mutually stiffening the frame and being stiffened by it.

They are round in the throat, they polish in use and the frame being extra high, they can scarcely be clogged. They have no equal anywhere. The cultivating teeth are original with us and though at first ridiculed by competitors, they are now the acknowledged standard and are imitated by almost every manufacturer, so far as they can be without infringement. Our patent covers fully the combination of reversible tooth and bolt sleeve, an important advantage, as a smaller headed bolt, less liable to clog up the tooth, securely fastens it, while the square shoulder prevents its turning on the standard. When buying repairs see that the trade-mark, "Planet Jr.," is on the back of every tooth. The patent hoes are also reversible and are used either point foremost or rounded edge foremost.

No. 17 Single Wheel Hoe, Cultivator and Plow

Prices, with attachments,
from \$3.50 to \$7.25



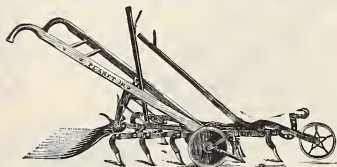
We have in stock 15, 16, 17, 18, Single Wheel Hoes.

Twelve-Tooth Harrow, Cultivator and Pulverizer



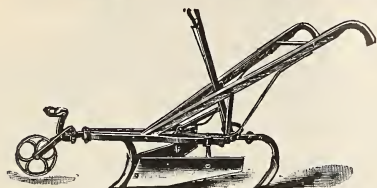
This tool has rapidly grown in favor amongst strawberry growers, market-gardeners, truckers and farmers. This is because the twelve chisel-shaped teeth do such thorough work, yet without throwing dirt on small plants and because the tool is so convenient, durable and strong. The combination of teeth and pulverizer leaves the ground in finest condition. The pulverizer, used with the lever wheel also enables the operator to set the tool exactly to any depth desired, making delicate work not only possible, but very easy. It is invaluable in narrow rows and fine work in market-gardens and close work on the farm.

Strawberry Runner Cutter



This is attached to the Twelve-Tooth Harrow and Cultivator. It is a 10-inch flat steel disc, mounted on an outrigger, has a castor action, is adjustable for depth and sidewise, and has an adjustable leaf guard, which lifts the leaves to avoid trimming them off and weakening the plants. It is highly approved by strawberry growers.

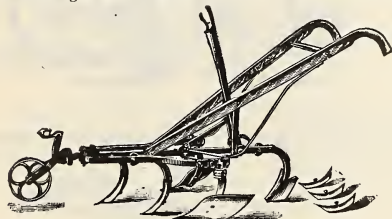
Iron Age Farm and Garden Tools



Iron Age Long Wing Cultivator.

Iron Age Cultivator and Horse Hoe

These goods are all well known to be made of the best material. Their strength and working qualities are guaranteed. They are made almost entirely of steel, and have an expanding frame, contracting to 5 inches and expanding to 24 inches. They are provided with such a variety of teeth as to be adapted to nearly any kind of work. With the new lever attachment the width of cut can be constantly changed while the cultivator is at work. They are furnished with either long or short hillers.



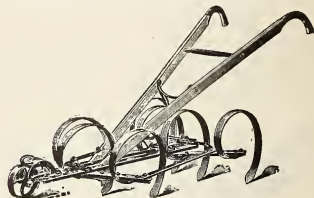
Iron Age Short Wing Cultivator.



No. 2 Iron Age Diamond Tooth Cultivator.

No. 2 Iron Age Diamond Tooth Cultivator

This tool is used for working very close to small plants, thoroughly pulverizing, but throwing no dust on them.



Spring Tooth Cultivator.

Spring Tooth Cultivator With and Without Expanding Lever

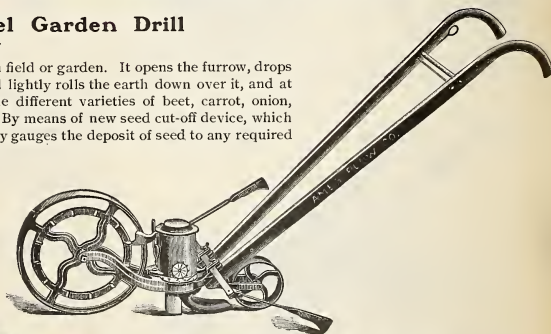
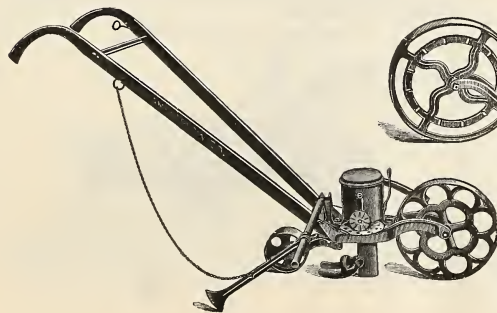
The Spring Tooth Cultivator is especially adapted for use in rough and stony ground. The frame is strong and well put together throughout. The teeth are adjustable for any depth.

MATTHEWS' NEW UNIVERSAL SEED DRILLS and HAND HOES

New Universal Model Garden Drill

Price, \$7

The Matthews Seed Drill is designed to be used in field or garden. It opens the furrow, drops the seed accurately at the desired depth, covers it and lightly rolls the earth down over it, and at the same time marks the next row. It plants all the different varieties of beet, carrot, onion, turnip, parsnip, sage, spinach, peas, beans, corn, etc. By means of new seed cut-off device, which works instantaneously, no seed is wasted. It accurately gauges the deposit of seed to any required depth.



New Universal Model Gem Seed Drill

Price, \$5.50

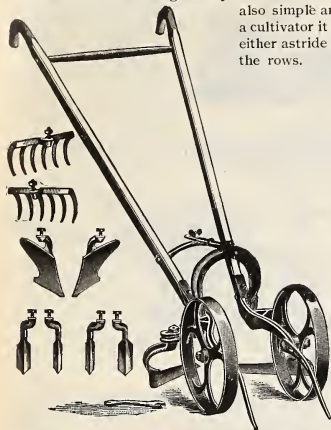
We offer in this little Gem a complete drill on the Matthews principle, embracing the same seed dial and patent indicator used in the large drills, but aside from these essential parts it is made on a smaller scale. The price brings it within reach of all, however small their requirements may be.

New Universal Model Combination Drill

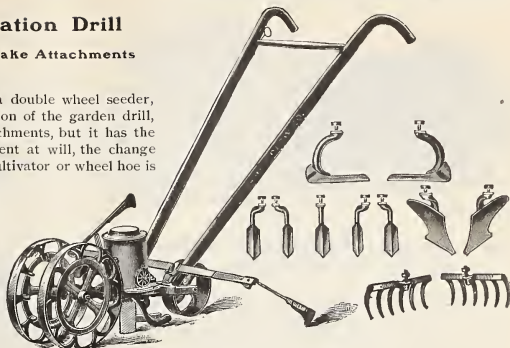
Double Wheel, with Hoe, Cultivator, Plow and Rake Attachments

Price, \$9

This illustration shows the combination implement as a double wheel seeder, also the attachments. It is not only a desirable combination of the garden drill, already described with the New Universal Cultivating Attachments, but it has the advantage of being either a double or single wheel implement at will, the change from one to another being readily made. The change to a cultivator or wheel hoe is also simple and easy; as a cultivator it can be used either astride or between the rows.



Double Wheel Hoe, Cultivator, Plow and Rake.



New Universal Model Combination Drill.

New Universal Double Wheel Hoe, Cultivator, Plow and Rake

Price, \$5.75

Nine adjustments of depth. Specially designed for working both sides of the row at one passing. This new hand implement embraces all the good points of older efforts in the same line, and in addition offers new features which can not fail of appreciation.

The special recommendation is the adjustable arch, by which not only the depth of work can be gauged, but which by an ingenious device enables the teeth to be pitched at any angle desired. It can be pushed straight ahead, but better results are obtained by using it same as a scuffle hoe with successive strokes of length to suit the nature of soil and crop. It is so symmetrically constructed that in passing astride rows of large plants the foliage once raised by the vine guards meets no obstruction between the wheel arms and the arch, and is, therefore, dropped by the implement without unnecessary damage and without delaying the operator.

New Universal Double Wheel Hoe with Hoe Blades only

Price, \$3.75. If with vine guards, add 40 cts.

The ease with which a great amount of work may be accomplished by the use of wheel hoes leads many to buy several of these tools. In such cases, it is not always necessary to have them all fitted out with complete sets of attachments. The hoe blades are the attachments most generally used.



New Universal Double Wheel Hoe.

New Universal No. 2 Single Wheel Hoe, Cultivator and Plow

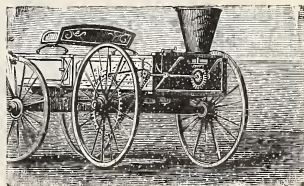
Price, \$4.25

This implement is same as our regular Single Wheel Hoe, except in the variety of attachments, which are 1 pair hoes, 1 pair cultivators, 1 center cultivator, 1 large plow.



New Universal No. 2 Single Wheel Hoe.

If this kind is wanted, be sure and specify "No. 2." This implement and our Gem Drill make a most complete outfit for a small garden. The large plow attachment may be used to plow the garden, to open furrows for manure, to cover it again, and for other uses of any ordinary plow. The hoes are for shallow cultivation.



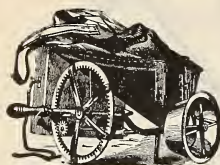
Broadcast Seeder.

Broadcast Seed and Plaster Sower

Price, \$10

From 50 to 70 acres can be sown with one team in a day.

Wheat, oats, rye, barley, buckwheat and every variety of grain requiring broadcasting, can be sown with this machine; also, with care, plaster, lime, salt, guano, and all the various phosphates and fertilizers. It can be attached to any ordinary farm wagon; it throws a double or single cast as required.



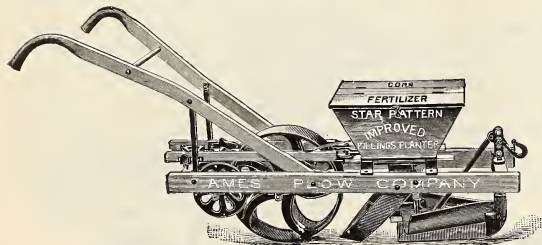
Cahoon Seed Sower

Price, \$3

For sowing wheat, barley, oats, buckwheat, rye, grass seed, etc. Sows from four to eight acres per hour at a common walking gait, throwing out wheat about 40 feet wide. A person entirely unused to sowing by hand can use this machine with perfect success.

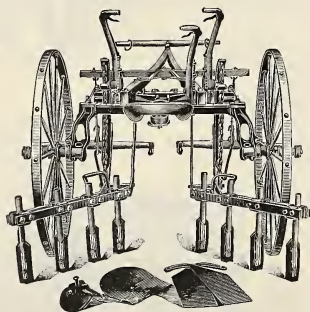
Star Pattern Improved Billings Corn Planter and Fertilizer Drill

For planting field, ensilage and fodder corn, beans and other seeds of a like size, this planter will be found perfectly adapted, and it can be arranged for planting beet seed. It is durable and simple in construction, and performs work with certain and good effect on stony and sward land, as well as on mellow intervals or other smooth land, thus asserting its superiority over other planters. It plants at twelve different distances apart, viz.: 5½, 7, 9, 11, 14, 18, 22, 28, 36, 44, 56 and 72 inches.



STANDARD PATTERN

14-inch wheel, plants 5½, 11, 22 and 44 inches apart \$17 00
16-inch wheel, plants 6, 12, 25 and 50 inches apart 18 00
18-inch wheel, plants 7, 14, 28 and 56 inches apart 19 00
20-inch wheel, plants 7½, 15, 31 and 62 inches apart 20 00



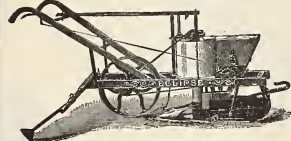
Sulky Cultivator, Walking and Riding

This tool is worth more than two ordinary cultivators, besides the saving of one man's labor.

Eclipse Corn Planter

Price, \$22

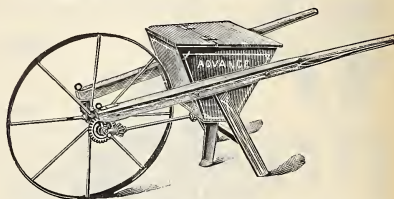
This is the only planter that will accurately distribute all commercial fertilizers, wet as well as dry, pulverized hen manure, plaster, ashes, etc., in given amounts per acre, in hill, drill or check. This planter is easily adjusted to drop fertilizers in hills, drills or checks, as follows: It will drop 6, 12, 24 or 36 inches by using sprocket wheel No. 15 on seed roll shaft, or will drop 7, 15, 30 or 45 inches by using sprocket wheel No. 16.



Sprocket wheel No. 16 can be applied to any Eclipse planter now in use. As small amounts as 50 pounds per acre can be dropped, wet or dry, with just the same degree of accuracy as 200, 300 or 450 pounds per acre.

"Advance" Fertilizer Drill

Packed Weight, 40 Lbs. Price, \$7

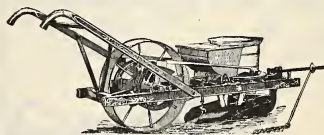


The increased use of commercial fertilizers has fairly compelled the farmer and planter of the present day to provide himself with improved appliances for properly and economically distributing these adjuncts of modern farming. We claim the "Advance" to be the best low-priced distributor on the market, and would call attention to its distributing disc of galvanized iron, which can neither break nor rust; also to the wrought iron wheel, light and strong. A shut-off to prevent the escape of fertilizer when wheeling around the end of row, is a late improvement; one of those little things which go far, however, in making a tool valuable. A first-class tool for the drilling of peas and corn.

King of the Corn Field Planter

Price, \$22

This planter is durable and simple in construction, not liable to get out of order, in consequence of its having no gears, chains or other complicated parts to break or wear out. The 24-inch wheel drops 4½, 9, 18, 36 and 72 inches apart; the 20-inch wheel drops 7½, 15, 30 and 60 inches. Price of either 20- or 24-inch wheel is the same.



Whitman's Root and Vegetable Cutter

Price, \$8.25

This is the best machine for cutting all kinds of roots for feeding stock. It cuts the roots into small pieces, leaving no piece large enough to choke sheep.

The knives can be adjusted to cut coarse or fine, as desired. It will cut one bushel of roots per minute with ease.



Champion Root and Vegetable Cutter

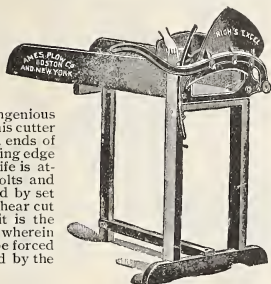
Price, \$6

This machine is made with a wrought shaft with sections of knives fastened to it, and so arranged that a rotation of knives are continually passing, a bed knife with cross knives passing between the section of knives, cutting always near the center shaft, making it cut easy and fine enough for cattle or sheep; also making a very regular cut. It will cut one bushel of roots per minute.



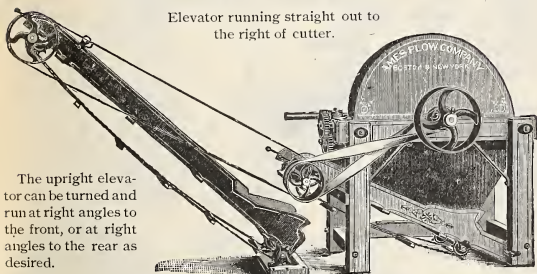
Rich's Excel Feed Cutter

The latest and most successful Lever Feed Cutter on the market is the Rich's Excel. By an ingenious contrivance the lever of this cutter is held in bearing at both ends of the knife, keeping the cutting edge against the bed. The knife is attached to the lever by bolts and adjusted to the cutting bed by set screws. Thus a perfect shear cut is always insured, and it is the only machine of its class wherein the knife is not liable to be forced away from the cutting bed by the forage.



Doctor Bailey Ensilage and Dry Forage Cutters

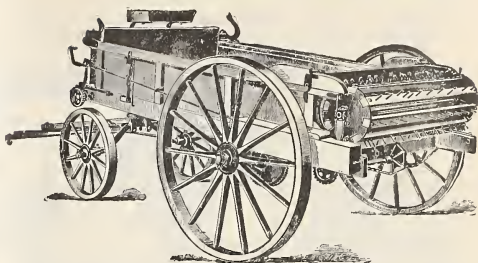
Elevator running straight out to the right of cutter.



The upright elevator can be turned and run at right angles to the front, or at right angles to the rear as desired.

Length	No. of	Power	Diam. of	Diam. of	Price	Extra
of knives	knives		wheel	pulley		knives
9	2	Hand	26 inches		\$25 00	\$1 25
10	2	"	27		35 00	1 50
12	2	Hand or horse	34	12 inches	55 00	2 00
14	2	One-horse	39	12	75 00	2 75
16	3	Two-horse	42	16	95 00	3 00
20	3	Two-to-four-horse	48	16	120 00	3 50
Extra for pulley, with 10-inch cutter						2 00
Chain elevator, complete, with 12-inch and 14-inch cutter; base and first, 15 feet						45 00
Chain elevator, complete, with 16-inch and 20-inch cutter; base and first, 15 feet						50 00
Each additional foot, 12- and 14-inch, \$1.75; 16- and 20-inch						2 00

The capacity of our cutters is not limited or governed by the length of the knives, as it will be readily seen that all fodder once under the knives on the powerful main wheel must be cut. This feature is peculiar to this machine, for on all cylinder machines and machines with convex radiating knives, the greatest space between knife and cutting-bed is necessarily very much contracted. These machines are giving entire satisfaction, and the ever-increasing demand shows their great popularity.

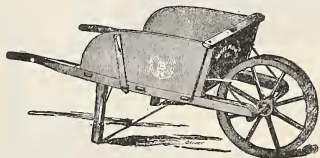


The 20th Century Manure Spreader

Carries a full load; is operated entirely from driver's seat; commences the work evenly; is operated with two-thirds the draft of other spreaders; spreads without any waste or leakage of material, whether lime, ashes or very wet or dry manure; can't be broken by a careless hired man; may be operated by your own chore boy; is the only perfect machine for spreading lime, ashes, salt, cotton-seed meal, etc. Convenient, effective, simple in construction and operation; in the end, the cheapest.

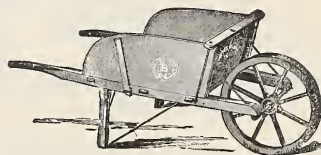
WHEELBARROWS

Prices from \$1.50 to \$6



Americus Barrow

This is a varnished barrow made from selected stock of hardwood, having very heavy wheel with eight spokes and iron hub and steel shaft. It certainly is the very best barrow on the market.



Casco Barrow

The Casco Barrow is made from good material, painted green, with eight-spoke wheel, and iron hub.

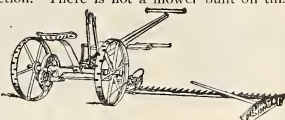


Railroad, or Canal Barrow

Deering Ideal Mower, Binder, Corn Harvesters, Rakes, Twine and Oil

Deering Mower

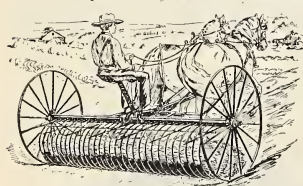
Here is food for reflection. There is not a mower built on this continent today but has within three years appropriated one or more of the features introduced by the Deering Ideal Mower. As soon as rival concerns apply a Deering idea they announce that their machines are "world beaters." Here are a few of the things that have been simulated or imitated: Horizontal crank-shaft, adjustable drag-bar, spring-steel clips, steel wearing plates, serrated ledger plates, roller and ball-bearings. The Ideal Mower contains numerous features of great intrinsic value to the farmer which cannot be imitated.



Deering Mower.

Deering Hay Rakes

Can be operated by a child. Perfect steel under-cleaners.



Deering Hay Rake.

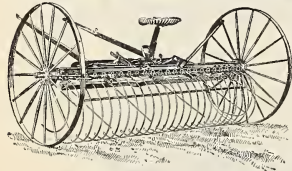
High-carbon angle-steel axle. Can be dumped by hand or foot. Oil-tempered steel teeth of finest quality. Ninety-five per cent of material finest high-carbon steel. Simplest dumping mechanism on earth; not a cog or pinion of any kind. Shouldered steel spokes in wheel, hot pressed at malleable hub and rim.



Deering Ideal Corn Harvester

Walter A. Wood Steel Self-Dump Rake

These rakes stand in a class by themselves. They never refuse to dump and yet are so constructed that they cannot dump until the tripping device is released. The Wood thills avoid all possibility of machine jar or horse motion. Axles are made of choicest, thoroughly tested steel. They can not bind on side hills or any uneven surface. The wheels are all steel, strong, light and warranted. The hubs are detachable. All parts of the wheels are made interchangeable. The wheel boxes can be instantly removed. All the teeth are made of crucible steel and have a coiled spring which causes the tooth to closely follow even the most uneven ground and yet not break. Swing the hand lever forward to notch in front for absolutely hooking up the teeth. If you want the lightest of strong rakes and the strongest of light rakes, you want the Wood Self-Dump Rake, made in four widths, viz.: 8 ft., 9 ft., 10 ft. and 12 ft.



Walter A. Wood Dump Rake.

Walter A. Wood Two-Horse Tubular-Steel Mower

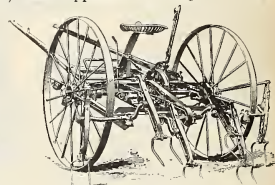
The best 2-horse mower by all tests; and it is best because it is the easiest operated, the lightest running, the longest lived, mows cleanest, closest and clearest under varying surface conditions. The tubular steel frame gives it lightness with strength and rigidity. The mower is fitted with our incomparable tried and true steel roller bearings in the axle and cross shaft, which make the machine of very easy draft. The famous Wood "under hitch" takes all weight from the horses' necks. The rolling shoe wheels on the cutter bar automatically adjust themselves.



Walter A. Wood Mower.

Walter A. Wood Steel Tedder

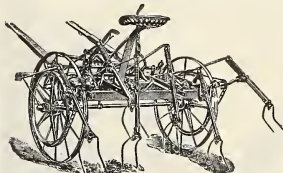
The 1901 model has many new and important improvements. It is all steel in construction, neat in appearance and light in weight. Steel roller bearings throughout. Height of forks from ground easily governed by adjusting lever. The forks through out stir and turn the hay and can be thrown out of motion at will. They are made of crucible steel of right pattern and held in position by a stiff steel spring, which yields sufficient to prevent breakage when at work on uneven surfaces. The shafts can be changed to pole by a simple adjustment and in a few seconds. The bearings where shaft passes through the forks have adjustable removable boxes, which when worn can be easily replaced at small expense; a most important improvement.



Walter A. Wood Steel Tedder.

Tiger Hay Tedder

Our All-Metal Fork does not strike the ground with a direct end thrust, as some makes do, but yields readily to the inequalities of the ground and any solid obstruction. The fork arms have long bearings on the crank, a most important point, as this depends the life of a tedder. Each crank is made of one piece of metal, thus avoiding the breaking of joints. The Tihen can be swung up and down easily and quickly, so as to ted all the hay. Thrown in and out of gear by lever from driver's seat.



Tiger Hay Tedder.

"The Elgin" Adjustable Wrench



The handiest wrench made. Will hold square, hexagon or round nuts, pipes, nipples, collars and rods. Designed for use as a handy wrench that can be carried in the pocket, used for all purposes and easily and accurately adjusted. It is all steel, fully nicked, with both jaws hardened. Length 7 inches. Weight 10 ounces. Price, \$12 per doz.

Monkey Wrench Pipe Jaw

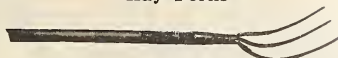


Monkey Wrench Pipe Jaw.

Buy a set of teeth for your monkey wrench. We make them and they fit any 10 or 12 inches long. It saves carrying two heavy wrenches and really makes a better and more reliable pipe wrench than you can buy for twice the price of a monkey wrench. Price, 25 cts.



Hay Forks



- 2-tine oval, 11-inch tine, bent handle, plain ferrule.
- 2-tine oval, 12-inch tine, bent handle, plain ferrule.
- 3-tine oval, 12-inch tine, bent handle, plain ferrule.
- 3-tine oval, 13-inch tine, bent handle, plain ferrule.
- 3-tine oval, 14-inch tine, bent handle, plain ferrule.
- 3-tine oval, 15-inch tine, bent handle, plain ferrule.

Manure Forks



- 4-tine oval, long handle, plain ferrule, Manure Forks.
- 5-tine oval, long handle, plain ferrule, Manure Forks.
- 6-tine oval, long handle, plain ferrule, Manure Forks.
- 4-tine oval, D handle, plain ferrule, Manure Forks.
- 5-tine oval, D handle, plain ferrule, Manure Forks.
- 6-tine oval, D handle, plain ferrule, Manure Forks.

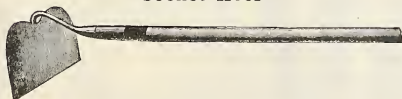
Spading Forks



- 4-tine, D handle, diamond back, Spading Forks.
- 5-tine, D handle, diamond back, Spading Forks.

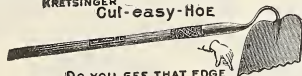
Wood Stable Forks

Socket Hoes



Full bright finish Socket or Field Hoe.
Full bright finish Shank or Field Hoe.
Meadow, Street and Mortar Hoes.

KRETSINGER Cut-easy-Hoe



DO YOU SEE THAT EDGE

Pattern of our Crucible Socket Garden Hoe.
Size 7 1/4 inches, with sinuous beveled edge,
making a cutter that nothing will resist; a great
weed destroyer; works in soil better than an
ordinary one.

Scuffle Hoes

- | | |
|--------------------------------------|--------|
| | Price |
| 6-inch, with 6-foot handle | \$0 50 |
| 7-inch, with 6-foot handle | 50 |
| 8-inch, with 6-foot handle | 50 |
| 9-inch, with 6-foot handle | 75 |

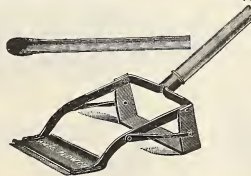


Scuffle Hoe.

Dutch Hoe



Dutch Hoe.



Arlington Scuffle Hoe.

Arlington Scuffle Hoe

6, 7, 8 and 9 inches. Price, \$1.50.

Cast-Steel Garden Rakes



- | | |
|---|--------|
| | Each |
| 10-tooth cast-steel Garden Rake | \$0 35 |
| 12-tooth cast-steel Garden Rake | 40 |
| 14-tooth cast-steel Garden Rake | 45 |
| 16-tooth cast-steel Garden Rake | 50 |
| 18-tooth cast-steel Garden Rake | 50 |

Goose-Neck Potato Hooks



- 4-tine oval Goose-Neck Potato Hooks, solid steel shank.
- 5-tine oval Goose-Neck Potato Hooks, solid steel shank.
- 6-tine oval Goose-Neck Potato Hooks, solid steel shank.

Manure Hooks

- 4-prong Manure Hook.
- 5-prong Manure Hook.

Clam Hooks



- 5-prong Clam Hook.
- 5-prong heavy Clam Hook.
- 6-prong Clam Hook.
- 6-prong heavy Clam Hook.



Sidewalk Cleaners

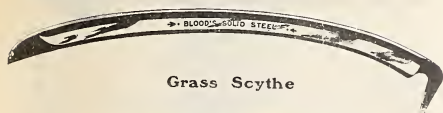
50 cts. each.

The 'VICTOR' Garden Cultivator



Steel blades 3 x 5 inches. Steel shanks adjustable and removable.
A handy tool for cultivating, weeding, drilling in beds of vegetable
and flowers. Put on a 5-foot handle. Gold and blue finish to metal
parts.

Scythes, Scythe Snaths and Scythe Stones



Grass Scythe



Bush Scythe

High grade solid steel scythes	34 to 42 in.
Clipper Scythes	34 to 42 in.
Bramble Scythes	30 in.
Bush Scythes	18 to 21 in.



Scythe Snaths

No. 50, patent loop	Each \$0.50
No. 65, cherry, patent loop	75
No. 105, bush snaths	65



Meadow King Scythe Rifles

Price, 10 cts. each.



Farmer's Friend Scythe Rifles

Price, 10 cts. each.



Mowing Machine Sharpeners

Three-cornered Blue English Emery Mowing Machine Sharpeners, one of the best sharpeners on the market. Price, 20 cts.

Scythe Stones

Black Diamond. A finer gritted stone than the Indian Pond, and at the same time very sharp and fast cutting.

Farmer's Choice. Flat, beveled edges; a good reliable scythe stone.

Indian Pond. This is very sharp gritted, and is strong and hard enough to cut away steel, yet will not glaze.

Willoughby Lake. Bluish gray in color. Fine, sharp grit. Round and oval in shape.

Chocolate. A very fine sharp-gritted stone of a rich blue-chocolate color.



Drag Rakes

Made from selected stock. Oiled heads.

Drag rakes. Our net price, each	Price \$0.75
Extra teeth, dozen	20
Extra pins, dozen	20



Hand Hay Rakes

3-bow Casco extra bent and clear stock	Price \$0.35
2-bow Casco extra bent and clear stock	30
3-bow Casco B bent handle	30
2-bow Casco B bent handle	25
2-bow No. 07 straight handles	20



Barrel Header

This is the most simple labor-saving machine ever invented for heading up barrels and is used extensively for heading up apples, fish and other merchandise.

Store Trucks

We make no hesitation in claiming that we carry the best line of store trucks in Portland. They are made from oak, the bars being solid in one piece; that is to say, without any shoulder being bolted on to hold the axle, thus making them much stronger. They are heavily ironed.

No. 0	\$4.00
No. 1	4.75
No. 2	6.00

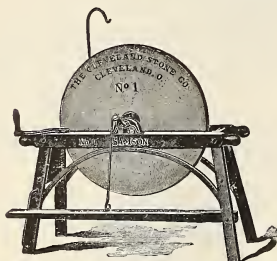


Bag Trucks

No. 1, each	\$2.50
No. 2, each	3.00



Loose Stone



Mounted Stone

We carry a large assortment of grindstones, with or without frames.

Steel Shovels, Scoops, Etc.



D. Handle Square Point Shovel.



D. Handle Round Pointed Shovel.



D. Handle Spade.



Solid Steel Scoop.



Wire Potato Scoop.



Long Handle Square Point Shovel.

Steel Shovels, Scoops, Etc.



Long Handle Round Point Shovel.

- D. handle square point shovels.
- D. handle round point shovels.
- Long straight handle square point shovels.
- Railroad shovels.
- Long straight handle spades.
- D. handle spades.
- Ditching spades.
- D. handle steel scoops.
- D. handle iron scoops.
- Long straight handle furnace scoops.
- D. handle furnace scoops.
- D. handle wire potato scoops.
- Wooden potato scoops.
- Post hole spoons, 6", 8", 10" and 12-foot.
- Post hole diggers.

Handles

- Straight hay fork handles.
- Bent hay fork handles.
- Long straight manure fork handles.
- D. manure fork handles.
- Manure fork handles Malleable D.
- Shovel handles.
- Hoe handles.
- Rake handles.
- Ice-pick handles.
- Cant dog handles.



Post Hole Digger.



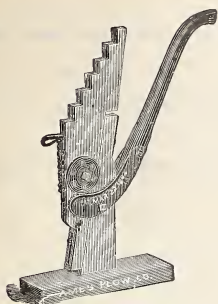
Post Hole Spoon.



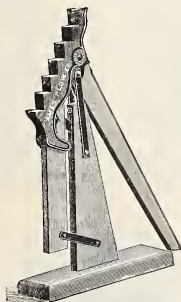
Oliver Jacks

Are easily adjustable to any height by grasping handle and sliding the bracket up and down. Pulling down the handle will raise 2½ inches, and locks by passing the center. Lifting range, 24 inches.

No. 1	\$1 25
No. 2	2 00
No. 3	3 00

**Little Giant Jacks**

No. 0, plain	\$1 60
No. 1, plain	1 80
No. 2, plain	2 20
No. 3, plain	2 60
No. 4, plain	3 00

**Prescott Jacks**

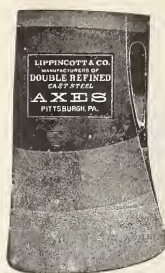
No. 1, standard	\$1 00
No. 2, standard	1 50
No. 3, standard	2 00
No. 1, I. X. L.	2 25
No. 2, I. X. L.	2 75
No. 3, I. X. L.	4 50

**Rhode Island Floor Scrapers**

This scraper is in the shape of a triangle, with a pin through the center, thus being reversible. Each one of the three sides may be used successively, as fast as one side becomes dull. Price, each, 75 cts.

Steel Floor Scraper

Each	\$0 50
----------------	--------

**Axes**

All kinds and weights.

**Short Cutter Mattocks**

Each, with handle \$1 00

**Long Cutter Mattocks**

Each, with handle \$1 00

**Pick Mattocks**

Each, with handle \$1 00

Crow Bars

Solid steel wedge pattern, 10, 12 and 14 lbs., per lb. . . \$0 10

**Railroad Picks**

Each \$0 75

**Contractors' Picks**

Each \$1 00

Bull Rings

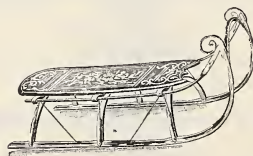
2½-inch copper, each \$0 20

Bull Leaders

No. 1, each	\$0 10
No. 2, each	15

Bull Snaps

With staff, each	\$0 75
Without staff, each	35

**Sleds**

We carry a full line of the celebrated Paris Manufacturing Company's Sleds. Write for special circulars and price-lists.

Hair Sieves

8-inch	\$0 35
12-inch	50
14-inch	65

Wire Sieves

12-inch	\$0 15
13-inch	25
14-inch	25

ICE TOOLS

**Red, White and Blue Ice Plow**

Price, \$25

Including the Patent Clearing Tooth and Swing Guide

We have put this plow upon the market the past season to meet the demands of dairies, hotels, butchers and farmers for a first-class implement at a low price. The material used is in every way of the first quality, and the finish is attractive and all that can be desired. The Patent Clearing Tooth is a feature on this plow. We set the plow to cut $1\frac{3}{4}$ to 2 inches deep at each passing, and cuts it a total depth of 7 inches. The swing guide, unless otherwise specified, is made to cut 22-inch cakes.

**Ice Saw**

The following are the ordinary lengths:

4 feet long	\$2 75
4½ feet long	3 00
5 feet long	3 25

**Breaking Bar**

The steel wedge-shaped end is inserted in plow grooves, thus detaching the "floats" from main body, also breaking up the "floats" into strips in same way. The ears give a firm bearing for the foot. The chisel end is for convenience if a sharp blade should be required. It can be used for calking and the chisel end for splitting. Price, \$3.

**Splitting Fork**

Price, \$3.85.

**Splitting Chisel**

Made with a narrow blade, it is a light and handy implement, and is used for splitting blocks or strips into cakes. It is also handy for many other purposes. Price, \$2.

**Ring Handle Splitting Chisel**

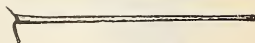
For same purpose as splitting chisel. The ring gives the operator a firmer hold, thus preventing loss through the ice. It is much used for cutting holes and various other purposes. Price, \$2.25.

**Ice Shaver**

Used for same purposes as the Breaker, but it shaves finer. Also made with either D or long handle. \$2.

**Calking Bar**

For calking the ends of grooves with the chips made in grooving, and thus preventing water from running in. It is long and thin and made entirely of steel. \$2.25.

**Ice Hook**

Best Norway iron, steel pointed, with an extra quantity of best tool steel. The following are ordinary lengths:

Ice hook, with 4 and 4½-foot handles	Doz. \$9 25
Ice hook, with 5-foot handles	9 50
Floating hook, with 12-foot handles	14 00

Tongs

No. 36, Drag, or Stowing Tongs. Long handle. For stowing ice. Price, \$1.75.

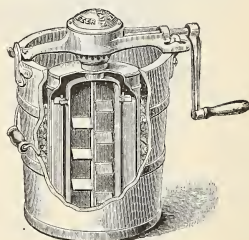
No. 35, Lowering Tongs. For use where there is little room, as filling ice boxes and large refrigerators, etc. Price, \$1.80.

Ice Tongs. Made of the best steel, with swell handles, and we call special attention to our improved points, which we consider superior to any in the market in their working qualities.



No. 2. 18-inch spread	\$0 75
No. 3. 21-inch spread	80
No. 4. 24-inch spread	1 00

No. 33, Hoisting Tongs. Used for hoisting and lowering ice, hoisting direct from the water to platform, loading vessels, filling houses, etc. They are made of stiff steel and pointed with cast-steel. With claw points, \$4.

**Improved White Mountain Freezer**

This is universally the favorite family Ice Cream Freezer, because it combines more excellences than all other family freezers made. It will, in four minutes, freeze to uniform hardness cream of even grain and perfect smoothness. The tubs are built very strong and will not warp, leak or crack, and the cans are made of the finest quality pure charcoal tin. Its beaters and interior mechanism are plated with block tin, and the exterior metal parts are cast-iron, finely galvanized to prevent rusting. It is the only freezer made with a duplex dasher and double self-adjusting scrapers, which, by keeping every particle of cream in constant motion, causes it to freeze faster and more evenly than can possibly be accomplished by any other freezer.

2-quart	\$1 85	10-quart	\$5 25
3-quart	2 15	12-quart	6 50
4-quart	2 50	15-quart	8 00
6-quart	3 25	20-quart	10 50
8-quart	4 25	25-quart	13 00

Arctic Ice Cream Freezers

We also carry Arctic Ice Cream Freezers, and below quote the following prices:

2-quart	\$1 50
3-quart	1 85
4-quart	2 10
6-quart	2 75
8-quart	3 50
10-quart	4 75
12-quart	6 00
15-quart	7 25

Lanterns



No. 0. Ham's Clipper Lift.



No. 2. Clipper Lift.

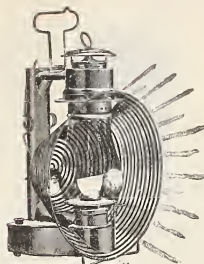
No.	Each
0. Clipper Lift	\$0 65
2. Clipper Lift	75



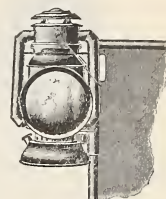
No. 2. Cold Blast.

No. 15. Japanned
Dashboard Bullseye Globe.

No.	Each
2. Cold Blast	\$1 15
15. Japanned Dashboard Bullseye Globe	1 00



No. 20. Searchlight Lantern.



No. 18. Driving Lamp.

No.	Each
20. Searchlight Lantern	\$1 50
18. Driving Lamps	2 50

Pump and Faucet Oil Cans



Monarch Swing Can.



Quaker.



Climax Pump Oil Can.

	Each
Climax Pump Oil Can, our net price, 5-gallon	\$1 00
Monarch Swing Can, our net price, 5-gallon	1 00
Columbia, our net price, 5-gallon	85
Quaker, our net price, 5-gallon	75



Polo 1-Gallon Can.



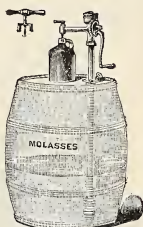
Wire Cushioned Oil Can.

	Each
Polo 1-Gallon Can, with side handle	\$0 25
Globe 1-Gallon Can, with side handle	35
Wire Cushioned Oil Can	50
The Dandy Tin Jacket Oil Can, 1-gallon size	30

Enterprise Self-Priming and Measuring Pump

Tinned

For measuring molasses, heavy oils, tar and other thick liquids. Each revolution of the crank pumps a gill, 4 revolutions a pint, etc. No priming is necessary; simply insert in the barrel and it is ready for use. Has a patent clamp, operated by a thumb-screw only, to fasten to barrel. Extreme length, 54 inches.



INDURATED FIBER WARE



Indurated Tubs

No.	Each
0. 23 1/2 in. in diam., 13 in. deep	\$1 25
1. 20 1/2 in. in diam., 12 in. deep	1 00
2. 19 in. in diam., 10 1/2 in. deep	85
3. 18 in. in diam., 9 1/2 in. deep	75

Indurated Keelers

No.	Each
1. 17 in. in diam., 6 1/2 in. deep	\$0 50
2. 15 in. in diam., 6 in. deep	45
3. 13 in. in diam., 6 in. deep	35
4. 12 in. in diam., 4 in. deep	30



Wash Basins

No.	Each
1. 13 1/2 in.	\$0 20
2. 12 in.	15



Star Pails

Our net price, 25 cts. each.

Pails

Stenciled "For Fire Only." 35 cts.



Slop Jars
With straight sides and cover. 75 cts.

Slop Jar Mats

17 in. in diameter. 25 cts.



Indurated Spittoons

No.	Each
1. 5 1/2 in. high, 13 in. in diameter	\$0 50
2. 5 1/2 in. high, 11 in. in diameter	40
3. 4 1/2 in. high, 9 in. in diameter	35



Vinegar Measures

Sets of 6, pts., qts., 1/2-gal., gal., No. 1 Funnels, No. 2 Funnels	\$2 00 net
2-qt. Sets, pts., qts., 1/2-gal., No. 2 Funnel	1 20 net
Gallons	50
2 quarts	40
Quarts	35
Pints	25
No. 2 Small Funnel	25
No. 1 Large Funnel	30

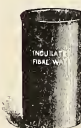
Pitcher and Bowl Sets

	Each
Plain	\$0 60
Enameled	85



Florists' Vases

No.	Each
0. 8 in. diameter, 13 in. deep	\$0 40
1. 5 1/2 in. diameter, 10 in. deep	35
2. 4 1/2 in. diameter, 9 in. deep	30
3. 4 in. diameter, 6 in. deep	25
4. 3 in. diameter, 4 1/2 in. deep	20



Ice Water Jars

	Each
Straight sides, No. 4. 9 in. diameter, 11 in. deep	\$1 15
Straight sides, No. 6. 12 in. diameter, 10 1/2 in. deep	1 65
Straight sides, No. 8. 12 in. diameter, 12 in. deep	1 90
Straight sides, No. 5. 9 in. diameter, 13 in. deep	1 40



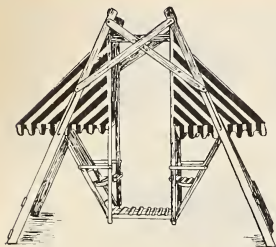
Slop Urns

	Each
Slop Urns	\$0 50



Patent Lawn Swing Awnings

Fastened to frame of chair and swings with it; turns up when not required for use; gives shade at all times; folds up with frame when put away for the winter. \$4.50 each.



Fairfield Lawn Swings

This Swing is the best swing on the market. It is made of clear spruce and is very easy to operate. It is showily painted and is perfectly safe for small children. It can be folded into very small compass, to be packed away for the winter.

No. 2 Lawn Swings. Our net price	\$5 00
No. 4. For four people. Our net price	7 00
No. 7. Four people. Extra quality. Our net price	8 00
Awning for No. 2 Swing	4 50
No. 3 Park Swing	10 00



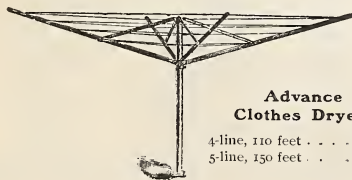
Cram's Folding Clothes Horse

There are literally millions of them in use all over the world. They are so well made one will last for a life-time.

No. 3, 40 feet drying space	\$6 60
No. 3½, 50 feet drying space	7 00
No. 4, 60 feet drying space	8 00

Lawn Settees

Nicely painted and varnished; can be folded up. 75 cts. each.

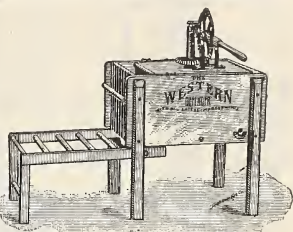


Advance Clothes Dryers

4-line, 110 feet	\$2 50
5-line, 150 feet	2 75

Vandergrift Washing Machines

New Improved Western Defender Washers. The Western Defender is manufactured of good material, is well constructed and nicely finished. Is fitted with all the improved gearing, and is a standard light-running machine. Made in two sizes. It is crated for shipment with gearing inside of machine on our patent panel. All adjusted and ready for use. No casting to set up or adjust. One special feature is that it has a bench for the tub. Write for circulars. Price, medium family size, \$4.

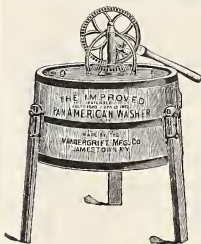


The Pan-American Washing Machine

It will wash a heavy blanket or greasy overalls thoroughly clean, or the most delicate laces without tearing. Price, \$4.

Mop Wringers

The Mop Wringer may be instantly and quickly attached to the pail and removed therefrom. Use any soap, soap powder, ammonia, etc. Use mop made of any material desired. In wringing the mop, press it, iron and all, firmly down into the wringer, then press down the handle, not suddenly but firmly, holding the arm firm, and the weight of the shoulders will do the work all right. An ordinary child from 12 to 15 years can easily wring a mop. Price, \$1.50; hotel size, \$2.



Wringers

Our line of Wringers consists of the Universal, Universal Ball Bearing, Novelty, Relief, Challenge, Household, Daisy, Bishop's Best.

Bench Wringers. Household, Gem, Challenge, Grand.



Step-Ladders

Imperial 1900. A new Step-Ladder for the new century. The strongest ladder made and the best for general use. Clear Kennebec spruce. Two steel braces under every step. Extra strong back. Pale rest with each ladder. Every step braced with steel braces. Sizes 3 to 12 feet. Per step, 30 cts.

Hub. Made of ash and basswood. Strongly put together with screws. Per step, 30 cts.

Gem. Made of clear spruce, well put together, with nail attachment. Per step, 15 cts.

Challenge. No pains are spared to make this the best ladder on the market. Every step is clamped and bolted in such a manner as to make a break almost impossible. The superior merits of this ladder are shown by the constantly increased demand, especially for the longer lengths. Per step, 35 cts.

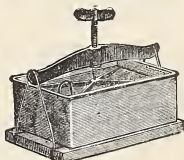


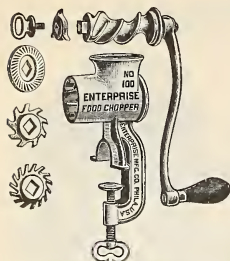
Hub Step-Ladder.

Extension Ladders Constantly on Hand.

Standard Kitchen Presses

For pressing corned beef, Dutch cheese, fruits, leaf lard, wines, jellies, vegetables, etc. This is the simplest and best press on the market. 2 sizes. Price, \$1 and \$1.25.





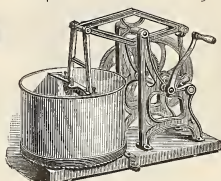
Enterprise Meat Chopper.

Enterprise Meat Chopper

For chopping all kinds of raw or cooked meat, vegetables and fruit. It does away with the chopping bowl. All sizes and prices.

Improved American Chopper

For cutting meat and vegetables.
No. 1. Cuts 3 pounds in 3 minutes . . . \$4 50
No. 2. Cuts 5 to 6 pounds in 3 minutes . . . 6 00
No. 3. Cuts 8 to 10 pounds in 4 minutes . . . 9 00



Improved American Chopper.

The Planet Dust Beater

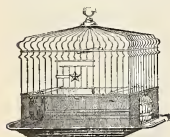
Made of strands of solid belting leather. Will not injure the finest furniture, clothing or upholstery. Will not bruise the hand. Will last for years, as there is nothing about them to break. 40 cts. each.



Bird Cages

We carry a large variety of brass and japanned cages. All sizes of parrot, breeding and squirrel cages.

Bird Cage Springs and Hooks.



GALVANIZED IRON WARE

Ash Can. Made of heavy galvanized iron, inserted bottom with heavy rim; will last a lifetime with proper care.

No.	Each
040. Size 17 x 26, stationary handle . . .	\$1 75
5. Size 18 x 26, drop handle	2 00

Garbage Cans. Made from good weight metal with heavy bail and cover, flat or inserted bottom.

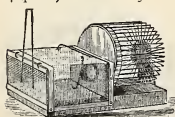
No.	Each
02	\$0 75
03	1 00

Sanitary Garbage Cans. Covers attached. 75 cts. and \$1 each.

Chamber Pails. 10 quart, with cover. 35c.

Coal Hods. From 15 cts. to 75 cts.
Water Pails—

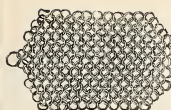
10-quart	Each
12-quart	\$0 25
14-quart	30
10-quart, extra heavy	40
12-quart, extra heavy	50
14-quart, extra heavy	60



Mouse Trap.



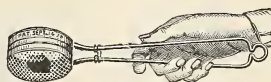
Rat Trap.



Pot Chain.



Corn Popper.



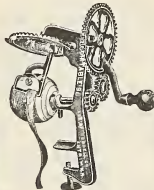
Soap Shaker.



Potato Masher, Single.



Shingling Hatchet.



Apple Parer.



Dry Measure.

Revolving Broom Rack

Suitable for showing up broom samples in stores. \$3.



MISCELLANEOUS SUNDRIES

Herewith we give a partial list of the many articles which we are wholesale and retail dealers in.

Axes.	Clothes Lines.
Bags, Feed.	" Wall Dryers.
Beaters, Egg.	" Pins.
Baskets, Fancy.	Cleaners, Peerless
" Bushel.	Window.
" Waste.	Combs, Curry.
" Work.	Coat Racks.
" Wood.	Covers, Barrel.
" Office.	Cutters, Slaw.
" Coal.	Dusters, Feather.
" Market.	" Wool.
" Show.	Dust Pans.
" Fish.	" Shovel.
" Cat.	Flour Sifters.
" Baby, etc.	Handles, Axe.
Boards, Ironing.	" Mattock.
" Bread.	" Hoe.
Brooms, Whisk, etc.	" Fork.
Brushes, Furniture.	" Shovel.
" Counter.	" Hammer, etc.
" Window.	Hods, Coal.
" Floor.	Holders, Soap.
" Mane.	Hatchets, Shingling.
" Horse.	Hampers, Clothes.
" Radiator.	" Ice Picks.
" Shoe.	" Ice Shavers.
" Stove.	Jars, Lightning.
" Milk Bottle.	Jars, Mason.
" Separator, etc.	Jardinieres.
Can Openers, None	Knives, Mincing.
" Such.	" Bread.
Can Openers, I X L.	" Pruning.
Cabinet for Spices.	" Budding.
Choppers, Meat.	Kegs.
Chopping Bowls.	Knife Holder.
Trays.	Lemon Squeezers.
Chains, Pot.	Mops, Floor.
	Yacht.

Mops, Dish.
" Can.
" Sticks.
Mauls, Steak.
Measures, Vinegar.
" Dry.
Potato Masher, Hen-
nis.
Potato Masher, Single,
etc.
Pins, Rolling.
Paint.
Poppers, Corn.
Rollers, Towel.
Shovels, Snow, etc.
Sifters, Ash.
Sieves, Flour.
" Surprise.
" Coal.
Soap Shakers.
Scops, Sugar.
" Flour.
Furnace, etc.
Traps, Mouse.
" Rats.
" Mole, etc.
Tubs, Wood.
" Fiber.
Wrenches, Bull Dog.
" Monkey.

STONEWARE

Covered Butter Pots



	List price
6-gallon	\$16 00
5-gallon	14 00
4-gallon	12 00
3-gallon	10 00
2-gallon	7 00
1½-gallon	5 50
1-gallon	4 50
¾-gallon	3 50

Jugs

4-gallon	\$11 00
3-gallon	8 00
2-gallon	6 00
1-gallon	3 50
½-gallon	2 50
¼-gallon	1 50



Preserve Jars

4-gallon	\$10 00
3-gallon	8 00
2-gallon	6 00
1½-gallon	5 25
1-gallon	4 00
¾-gallon	2 75
½-gallon	1 75



Covered Churns

6-gallon	\$16 00
5-gallon	14 00
4-gallon	12 00
3-gallon	10 00
2-gallon	7 00



Covered Bean Pots	
1½-gallon	\$5 25
1-gallon	4 00
¾-gallon	3 50
½-gallon	2 75
¼-gallon	2 00

Molasses Jugs

2-gallon	\$6 50
1-gallon	4 00
½-gallon	3 00



Miscellaneous

Gallon water kegs, 40 cts. per gallon.



TINWARE

OVAL WASH BOILERS. Flat tin bottoms, stamped covers.
DINNER PAILS. Round eastern pattern; one case, without cup.
RAILROAD DINNER PAILS. Hinged and hasped cover tray and coffee flask.
DUST PANS. Janned steel-edged.
QUAKER DUST PANS. With protector on the back.

OAK TUBS

With galvanized or black hoops.

WELL BUCKETS

Made of oak, with galvanized hoops and bail.

OUR EXCELSIOR BRAND OF POPCORN

is the finest corn obtainable for summer sales.

Bowker's Fertilizer

FOR LAWNS AND GARDENS

Now is the time to apply "the old original Bowker's" for lawns, and as soon as the flower beds are spaded up it will be an excellent plan to rake in a quantity to make vegetation flourish this summer. It is odorless, easily applied. Plain directions with each package. **Free from weed seeds.**

Enough for 1,000 square feet	\$0 50
" " 2,500 " "	1 00
" " 5,000 " "	1 75
" " ¼-acre " "	3 00

Double the quantity for shrubs, flowers and vegetables. It fosters luxuriant growth and is lasting in its effects.

BOWKER FERTILIZER COMPANY

North Pole Refrigerator

The most important point to consider in buying a Refrigerator is the **preservation of food**. The second vital point to be taken into consideration is the **economical use of ice**. Scientific investigation demonstrates that dry air is absolutely essential to the proper preservation of food, for with dampness decomposition immediately sets in and food becomes spoiled. All ordinary Refrigerators have a defective system of circulation which causes this dampness, but by our system the air passes completely over the ice, under the ice and around the ice, not only giving this air the longest possible contact with the ice, but enabling it to discharge the impure qualities gathered from the provision chamber in such a manner that the Refrigerator gets the full benefit of the purifying qualities of the ice. In our Refrigerators meats and all perishable articles can be preserved for a long space of time.

When the ice receptacle in our Refrigerator is charged with ice, the air coming in contact with it is immediately reduced in temperature, condensation takes place, and moisture is deposited in obedience to the same laws that cause dew to be deposited upon the grass during a cool evening following a warm day; its moisture and impurities are wrung out in the form of a dew, and pass off with the drip of water. Thus the air, by being condensed and cooled, becomes heavy and descends into the provision chamber below, displacing the warm and lighter air which is constantly forced up. Therefore by our system an absolutely continuous circulation of pure, cold, dry air is assured.



The illustration shows the perfect ease with which the ice chamber, shelves, waste pipe and grate may be removed for cleaning. Every part cleanable, no inaccessible flues, waste pipe is removable, cleanable and has duplex circulation. It is deep enough to hold several rows of dishes, and the sliding shelves make access to the dishes and also cleaning very easy. You will note the patent ice grate takes out through the top. The basket is entirely independent of this grate, resting on same when in place, but taking out separately. Heavy air-tight walls thoroughly insulated. Baseboard swings up at the front. Elegant carvings of new design and golden oak finish.

"White Mountain" Refrigerators have a perfect system of cold, dry air circulation, founded on scientific principles. . . .

If a Refrigerator is not built just right it will not take long for the ice to eat up its cost. . . .

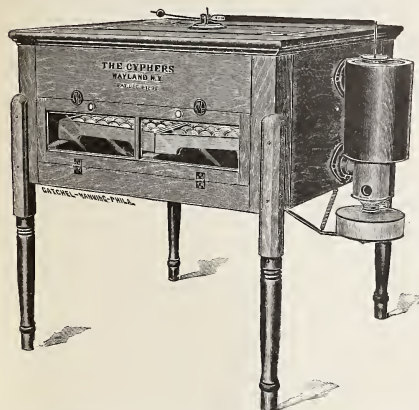
"White Mountain Grand" Refrigerators have Duplex Circulation and are thoroughly Cleanable. . . .

Call and see them, or write for Circular

We can ship these Refrigerators, securely crated and packed, to any address

THE CYPHERS NON-MOISTURE INCUBATORS ARE GUARANTEED

Points of Special Interest



Who Invented Them? The now famous Cyphers Incubators were patented in 1894. They were first placed on the market during the season of 1896-97, only four years ago, but are now used on the largest plants in this country, and by a majority of the best-known breeders in America. They were invented by Charles A. Cyphers, also inventor of the Mammoth 20,000-egg Cyphers Incubator, located on the duck farm of William H. Truslow at Stroudsburg, Pa. Mr. Cyphers has devoted the best years of his life to the study of artificial incubating and brooding, the results being a book on the subject entitled "Incubation and Its Natural Laws" (conceded to be the best scientific and practical treatise given to the public on this subject to date), the construction of the Mammoth 20,000-egg Cyphers Incubator at Stroudsburg, and the invention of the 60-egg, 120-egg, 220-egg and 360-egg Cyphers Incubators and the three-apartment Cyphers Brooders.

The "Diffusive Principle." Mr. Cyphers is the discoverer and patentee of the "diffusive principle" in artificial incubation, a highly important matter, for it was through this discovery that he was enabled to render his greatest service to the poultry industry by solving the "moisture problem." Untold thousands of chicks were being reported "dead in the shell," and the moisture question was the rock on which the hopes of hundreds, yes, thousands, of poultry raisers were being wrecked. The Cyphers Incubators **solved this problem** by introducing the diffusive principle and a self-ventilating system, which does away absolutely with supplied moisture, retaining in the machine the moisture contained in the eggs, which is ample for all purposes.

The result is an Incubator that is positively self-regulating, self-ventilating, and which requires no supplied moisture. Here we have, therefore, the simplest possible Incubator, one that is practically perfect in its ease of operation, as all that is required of the attendant is the filling of the lamp and the turning of the eggs. Today the Cyphers Incubator, a practical embodiment of the **Cyphers method**, stands without an equal. Used by the largest and most successful poultry plants in this country, by a majority of the best-known fanciers and by upwards of 10,500 small poultry raisers, it is pronounced by them to be **without a rival.**

Non-Moisture Incubators. The Cyphers is the original and only genuine Non-Moisture Incubator. All other so-called "no-moisture" machines are either imitations, or, worse still, merely claim to require no supplied moisture, in order that those who manufacture them may reap some of the benefits arising from Mr. Cyphers' great discovery and invention. The Cyphers Incubators are today the only machines that are, or can be lawfully, equipped with the Cyphers patent felt diaphragms, thus employing the diffusive system of ventilation, which does away entirely with supplied moisture. **For positive and abundant proof** that the Cyphers is the original and only genuine non-moisture Incubator, and that by solving "the moisture problem" Mr. Cyphers did artificial incubation and the poultry industry of all countries a truly great service, read the hundreds of testimonials in the Cyphers Company's Catalogue and Poultryman's Guide for 1901, entitled, "Profitable Poultry Keeping in All its Branches."

Built for Business. The Cyphers Incubators and Brooders are built for business. That is the idea. There is nothing fancy, nothing foolish about them. They are not parlor ornaments. That is not what Incubators are wanted for. Every Cyphers Incubator and Brooder is built in a workmanlike manner, out of the best materials on the market, and is sightly in appearance. While there is nothing fancy about them, no critic can place his hand anywhere on a Cyphers Incubator or Brooder and truthfully say, "This is inadequate; this is too cheap." In other words, every cent is spent on the Cyphers goods **that is necessary**, but not a penny more. The result is that the Cyphers, capacity, quality of material and workmanship considered, are sold at reasonable prices and the purchaser gets full value—**gets what he wants**—a practical Incubator and one that will last a lifetime with reasonable care.

One Style Only. The Cyphers Incubators and Brooders are manufactured in one style only, viz.: **The best.** The Cyphers Company has no "second best." It should be plain to all that if a 200-egg machine offered for \$20 is all that it ought to be, and will do the work required of an Incubator, then no company is justified in building two or three other grades of Incubators, and selling them at \$25 to \$30 each for the same capacity. The best Incubator that can be made is what the sensible poultry man wants, and nothing less than this. An extra \$5 or \$10 put into the "best Incubator" will earn itself the first hatch, and the difference in every hatch thereafter will be clear profit, as between a poor Incubator and the best that an up-to-date company can manufacture. Purchasers of Incubators should reflect on these facts and be governed accordingly. The poultry business is not boys' play. For earnest people it is the means of a livelihood. There is money in poultry for sensible people, for men and women who are governed by reason. For those who, unfortunately, follow cheap prices there is little hope in the poultry business. Cheap prices invariably mean cheap goods.

Sold on Honor. The Cyphers Incubators and Brooders are warranted to last **ten years** without repairs, and are guaranteed to **out-hatch**, during three trials, any other make of Incubator on the market, bar none—**this, or your money back.** Furthermore, the Cyphers Incubators and Brooders are sold on honor, that is, the company and each member thereof publicly agrees that in any case any Incubator or Brooder sent out by them is not as represented in their catalogues and other printed matter, and will not do the work claimed for it, they will take it back and refund the purchase price in full. We, as authorized agents of the Cyphers Incubator Company, stand back of this guaranty and are prepared to protect thereunder **any person who purchases, through us, one or more Cyphers Incubators or Brooders.** See page 50 for prices, etc.

READY FOR USE

Tinted Gloss Paint

CHEAPER THAN DIRT*Costs Less than Benzine, Water, or Rosin Oil*

WHY?

BECAUSE it is made of Pure Linseed Oil and Permanent Pigment.

BECAUSE it will not make you sick and will save a Doctor's bill.

BECAUSE a gallon can contains a full standard gallon of Paint and *not seven pints*.

BECAUSE one gallon will cover 250 to 300 square feet, 2 coats.

BECAUSE it is a Dirt Killer, and Dirt is a sure sign of "dead wood," expensive conservatism, and narrow-mindedness.

BECAUSE a well-painted store will catch the eye, stir the mind, and bring buyers.

BECAUSE a tastefully-painted house will bring happiness and contentment to all who dwell therein.

BECAUSE 40 years of practical success prove it the most durable Paint ever made.

BECAUSE JOHN LUCAS & Co., of Philadelphia, New York, and Chicago, make it, guarantee it, use it, and back us up in selling it.



The subject of house-painting is a standard topic at all times, as most people have occasion at some time to exercise their judgment as to the desirability of different shades or colors to be used on or in some particular house in which they are interested; to meet the requirements of those who may not be well up on the subject of paints, we have issued, in connection with our Tinted Gloss Ready-Mixed Paints, a most complete sample card showing twenty-five shades, including all the more modern and popular colors for exterior and interior house-painting on wood, brick, stone, or iron structures of all kinds. The colors on card are arranged to suggest contrasts that will produce pleasing effects based upon the principles of color harmony. On the back of the sample card we also give some suggestions on the use of mixed paints, hints on the most suitable colors or shades for different styles of architecture, and full directions for using.

**TRY LUCAS READY-MIXED FLOOR PAINT ON
YOUR KITCHEN OR DINING-ROOM FLOORS**

9106C10731

J. HORACE McFARLAND COMPANY
HORTICULTURAL PRINTERS
HARRISBURG, PENNSYLVANIA

Three Valuable Forage Plants

BEARDLESS BROME GRASS

(*Bromus Inermis*)

The Great Drought-Resisting Grass

The introduction of Beardless Brome Grass into the arid and semi-arid regions of the west and northwest has given the people of those states a pasture and meadow grass of great promise. It has already been proved that it will succeed under conditions that prove fatal to Timothy, Orchard Grass or Alfalfa. The area planted is constantly increasing, and the demand promises to be greater this spring than ever before. It is desired, therefore, to call attention to this very valuable grass.

The following description and instructions are taken from Circular No. 18, issued by the Department of Agriculture, Washington, D. C.: "Smooth brome has been known in Europe for over one hundred and thirty years. The early agriculturists did not consider it of any value because of its creeping rootstocks, thus resembling the dreaded couch grass. In 1834, however, Stebler and Schroeter demonstrated by experiments conducted for thirty years at Magocs, Hungary, that it had the power to withstand long periods of drought when all other grasses succumbed.

"These experiments resulted in introducing the grass into cultivation in Hungary, where it still retains the name of Hungarian brome-grass. Its introduction to the United States must have taken place about the same time, for we find the seed is offered for distribution in Bulletin 22 of the California Experiment Station, issued November 5, 1884, and the statement made that 'our experience indicates that it will do well here either with or without irrigation.' Since then the experiment stations of Colorado, Minnesota, Manitoba, North Dakota, South Dakota, and the different grass sections of the Agricultural Department, Washington, D. C., have conducted extensive experiments, and all speak of it in the highest terms.

"Smooth brome-grass is a native of Europe and Asia, ranging from France eastward into Siberia, growing along roadsides, river banks, borders of fields and woods, and upon sterile hillsides and pastures. It is a vigorous, hardy perennial with strong, creeping rootstocks, smooth, upright, leafy stems, one to four feet high, and loose open panicles, or 'seed heads,' four to eight inches long. In a few years it forms a very tough sod, soon crowding out other grasses, clovers and weeds. Its remarkable drought-resisting qualities have proved it to be the most valuable grass for dry regions where other grasses could hardly exist.

"As it is thoroughly permanent and grows with wonderful rapidity, producing heavy crops and luxuriant pasture, its value to the farmers of dry regions can not be over-estimated. All kinds of stock eat it with relish, and the chemical analyses made show that it is rich in flesh-forming ingredients, much more so than Timothy. It is very hardy and not injured by severe spring and fall frosts when once established. As it starts to grow very early in the spring, before any of the grasses upon the native prairies show any signs of life, and remains green and succulent far into November, it will supply the long-felt want of early spring and late fall pastures.

HARDINESS

"Smooth brome-grass will withstand extreme changes in the temperature without injury. Its ability to produce good pasture during long periods of drought far exceeds that of any other cultivated variety. In Canada, where it had been exposed to a temperature of several degrees below zero and not covered by snow, it was entirely uninjured. Out of seven or eight hundred varieties tried at the Kansas Experiment Station this proved to be the best. Without doubt it is the grass for the semi-arid regions of the west. From the reports received it is evident that it is very little influenced by the changes of climate. It does well in California, Kansas, Montana, North and South Dakota, Tennessee, Utah, Wyoming, and all parts of Canada.

VALUE FOR PASTURE

"Smooth brome-grass is essentially an early spring and late fall pasture grass. After the hay crop has been taken off a heavy growth of aftermath or second growth springs up. It seems to be especially adapted for permanent pastures. After it has produced several crops of hay it thickens up, forming a very compact sod and a heavy growth of leaves. If one desires to use it for pasture at once it will be better to seed it thickly at the rate of about twenty-five pounds per acre."

Lb. 40 cts., bus. \$3.

COW or FIELD PEAS

The Great Soil Improver

The Great Economy Crop for Farmers

Makes good land more productive. Makes poor land rich. Dispenses with clover and commercial fertilizers.

For pasture and hay of inestimable value. More nutritious than clover. More fattening than corn.

Roots penetrate deep in the soil. Grow on poor soil and rapidly enrich it. Positively the more of these Peas you grow the richer your ground becomes, even when you remove the crops.

COW PEAS are not a new crop. They have been grown in the southern states of our country for many years; but even there their worth was not generally recognized until very recently, and now they are almost universally grown, and the most remarkable benefits have resulted in improvements of the soil and increased capacity of farms to turn off stock and grain crops.

FERTILIZER. Where Cow Peas are generally grown, the use of commercial fertilizers almost ceases.

FOR HAY. Sow early in spring on ground as prepared for oats or corn, 1 to 1½ bushels per acre broadcast and harrow in, or drill with grain drill. Cut when Peas are forming and cure as clover. If the ground is not wanted for a different crop don't disturb it. Then the roots will throw up another crop which may be pastured or turned under in the fall for fertilizer.

FOR PASTURE. Sow any time from early spring until July. Turn stock on after they are well developed, but preferably after the Peas are nearly matured, when the stock, particularly hogs, will derive full benefit from the crop, and fatten quicker and yield a better quality of pork than if fed on corn.

FOR ENSILAGE Cow Peas surpass green corn and other crops used for this purpose. Mixed with sorghum or Kafir corn, to hold them up, I believe they will make the perfect ensilage crop. All the Cow or Stock Peas are good for table use.

WHIP-POOR-WILL. A favorite early bunch-growing variety; has brown-speckled seed, which are more easily gathered than from the vine-growing sorts. This variety is a prime favorite in the north and west on account of its early maturity and habit of growth. Will mature seed in Indiana and equal latitudes.

Prices per bushel will be quoted on application, as they are liable to change.

SOJA or SOYA BEANS

Sometimes called Soy Beans, Coffee Beans and Japanese Coffee Berry.

"Annual; stem stout, erect, branching but little; 2 to 4 feet; leaflets 3; flowers in axillary clusters; pods short, 2- to 4-seeded; whole plant rough-hairy. One of the staple crops of Japan, which attracted little attention in this country until about ten years ago, but is now becoming quite common. The crop is cultivated like corn, the seed being planted in drills at the rate of half a bushel per acre. The stems alone are too coarse to make good hay, but are covered with such a dense growth of leaves and are so prolific in fruit that the hay is prized highly, especially for milch cows and for fattening animals. The yield of green forage is very heavy when grown on good soil, and the yield of beans is from 20 to 30 bushels per acre. Those who have had most experience with this crop find that the best way to handle it is to cut or pull the plants when the first pods begin to open, and thrash as soon as dry enough. In this way the coarse stalks are so broken in pieces and mixed with the leaves and immature fruit that nearly all will be eaten. It is doubtless the best of the legumes for the silo, as it can be more easily handled for the cutter than can plants like clover or cow peas.

"The Soy Bean is an annual, belongs to the leguminous family, and is grown for the same purpose as cow peas and clover. As a soil renovator, as a hay and as ensilage, it is nearly the equal in every respect of red clover."

Qt. 20 cts., pk. \$1, bus. \$3.50.

